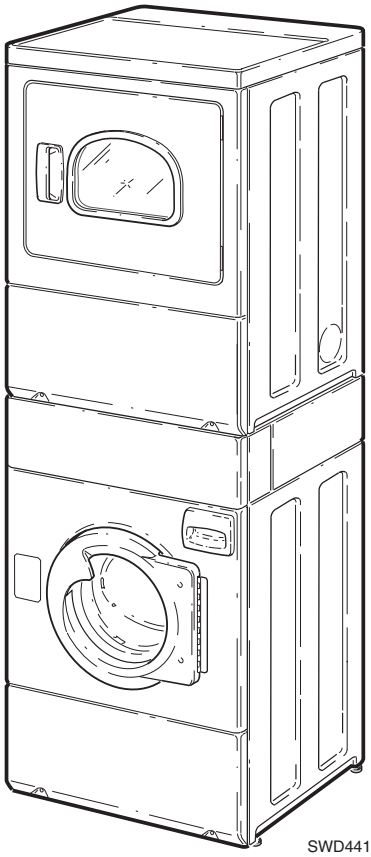
Homestyle Stacked Washer/ Dryers

Service

Refer to Page 3 for Model Numbers



SWD441C

Alliance Laundry Systems

www.comlaundry.com

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Model Identification

Information in this manual is applicable to these washers.

LTS97A*N	LTU97A*N	LTZ97A*N
LTS99A*N	LTU99A*N	LTZ99A*N
LTS99A*N1180		

*** Add Letter To Designate Color. W – White Q – Bisque**

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Notes

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Section 1
Safety Information

Throughout this manual and on machine decals, you will find precautionary statements ("CAUTION," "WARNING" and "DANGER") followed by specific instructions. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

⚠ DANGER

Danger indicates an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.

⚠ WARNING

Warning indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.

⚠ CAUTION

Caution indicates a hazardous situation that, if not avoided, may cause minor or moderate personal injury or property damage.

Additional precautionary statements ("IMPORTANT" and "NOTE") are followed by specific instructions.

IMPORTANT

The word "IMPORTANT" is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE

The word "NOTE" is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

In the interest of safety, some general precautions relating to the operation of this machine follow.

WARNING

- **Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce serious injury, death and/or property damage.**
- **Do not repair or replace any part of the machine or attempt any servicing unless specifically recommended or published in this Service Manual and that you understand and have the skills to carry out.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded and to reduce the risk of fire, electric shock, serious injury, or death.**

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

WARNING

Repairs that are made to your products by unqualified persons can result in hazards due to improper assembly or adjustments subjecting you or the inexperienced person making such repairs to the risk of serious injury, electrical shock or death.

W007

WARNING

If you or an unqualified person perform service on your machine, you must assume the responsibility for any personal injury or property damage which may result. The manufacturer will not be responsible for any injury or property damage arising from improper service and/or service procedures.

W286

NOTE: The WARNINGS and IMPORTANT INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining or operating the machine.

Always contact your dealer, distributor, service agent or the manufacturer about any problems or conditions you do not understand.

Locating an Authorized Servicer

Alliance Laundry Systems is not responsible for personal injury or property damage resulting from improper service. Review all service information before beginning repairs.

Warranty service must be performed by an authorized technician, using authorized factory parts. If service is required after the warranty expires, Alliance Laundry Systems also recommends contacting an authorized technician and using authorized factory parts.

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Section 2
Introduction

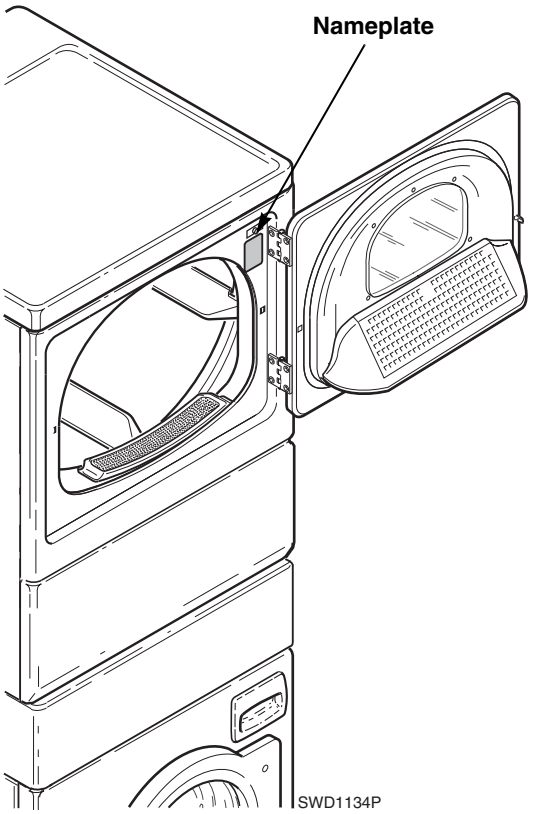
Customer Service

If literature or replacement parts are required, contact the source from whom the machine was purchased or contact Alliance Laundry Systems at (920) 748-3950 for the name and address of the nearest authorized parts distributor.

For technical assistance, call (920) 748-3121.

Nameplate Location

When calling or writing about your product, be sure to mention model and serial numbers. Model and serial numbers are located on nameplate(s) as shown.



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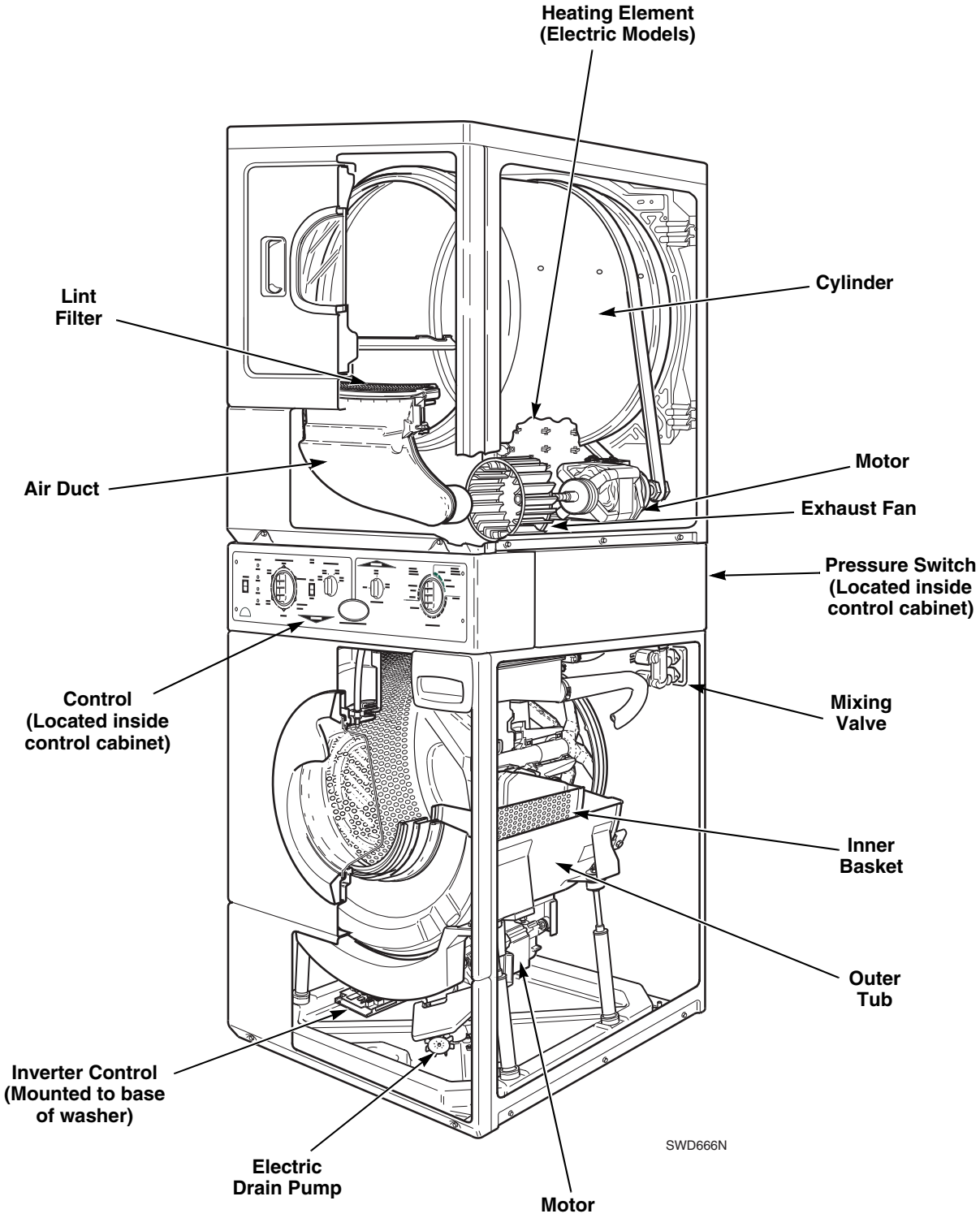
How Your Stacked Washer/Dryer Works



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General (Dryer)

The dryer uses heated air to dry loads of laundry. When the motor is started, the exhaust fan pulls fresh air in through louvers at the rear of the dryer and over the heat source (burner flame for gas and heating element for electric). The heated air moves through the heater duct and into the cylinder, where it circulates through the wet load. The air then passes through the lint filter, air duct and exhaust fan, where it is vented to the outdoors.

General (Washer)

This frontload washer provides some of the same principles of operation as the typical topload washers. It senses water level, it dispenses the desired laundry detergent, agitates the clothes for good cleaning action, removes the water out of the washer and spins the clothing in preparation for the dryer.

The difference in operation is primarily the rotational washing agitation created for the horizontal basket and drum. This agitation tumbles the clothes in a clockwise, pause, and counter-clockwise direction. This reversing tumbling action provides an efficient washing process and requires less laundry detergent and less water.

The cycle begins by pressing the start button, which locks the loading door. The type of cycle and water temperature are determined by the cycle select switch and temperature selector switch.

The inner basket starts agitating during the wash water fill. A column of air is trapped in a pressure bulb and hose. The air pressure continues to increase as the inner basket fills with water until it is great enough to activate the pressure switch which then causes the wash fill to stop.

The regular and perm press agitate cycles tumble the clothing in a clockwise direction for a period of 15 seconds, pauses for nine seconds and then tumbles the clothing in a counterclockwise direction for 15 seconds. This agitation continues until the wash soak cycle. The machine stops agitating and turns on the pump which removes the wash water.

Upon completion of the wash cycle, the machine goes into two rinse cycles. Fresh cold water is brought into the inner basket via the mixing valve until the pressure switch shuts off the water while agitating. The rinse cycle consists of agitation for a predetermined amount of time then a spin mode with the pump running while the machine goes into a series of 4 short 500 RPM spins.

After all the rinse cycles have been completed, the washer goes into a final high spin cycle to extract as much water as possible from the clothing to prepare them for the dryer. The spin speeds and duration of this final high spin cycle are determined by the type of wash cycle selected (refer to table).

NOTE: Washer may not reach 1000 RPM because of an out-of-balance condition. Control may limit speed to 850, 650 or 500 RPM depending on severity of out-of-balance condition.

	Regular	Perm Press	Delicate
650 RPM	3 minutes	4 minutes	4 minutes
1000 RPM	3 minutes	2 minute	0 minutes

Technical (Washer)

The basic operational system of this washer consists of the control, temperature switch, the inverter control, pressure switch, water valves, electric pump, A.C. motor and cycle select switch.

The control performs all timing functions like the timer in a topload washer.

The inverter control uses a speed sensor on the motor to measure the drum RPM. Before entering any spin step the inverter control measures the RPM of motor to sense out-of-balance. The inverter control will try to redistribute the clothes if an out-of-balance condition exists; the inverter control will limit the spin speed to several speeds depending on the severity of the out-of-balance condition. If the out-of-balance condition is severe enough the inverter control will limit speed to 90 RPM and will not spin.

NOTE: An additional out-of-balance switch is used to detect any out-of-balance condition during spins. If this switch opens during a spin step, the inverter control immediately stops and then restarts the spin.

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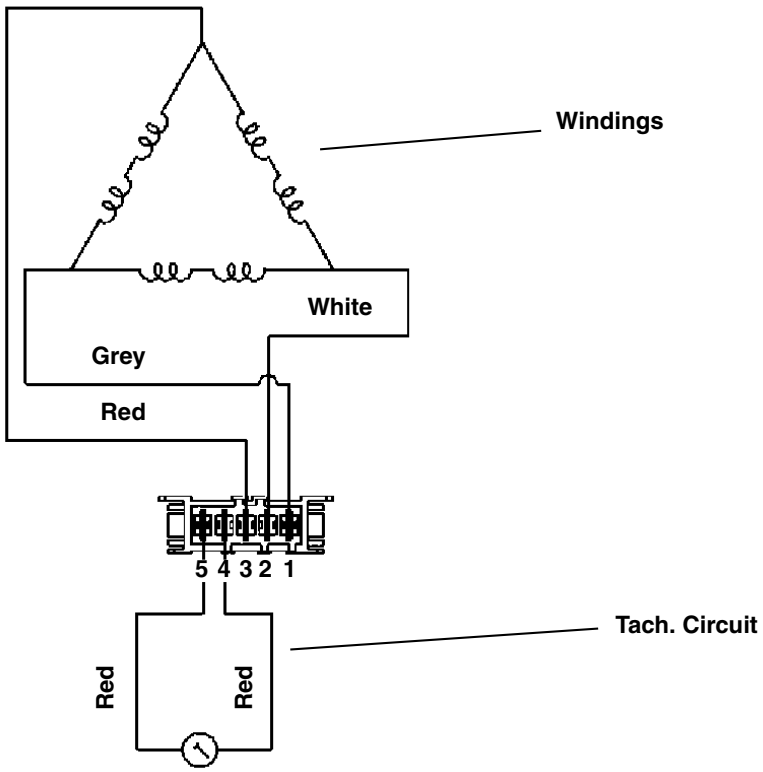
Section 3
Troubleshooting

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

1. WASHER MOTOR CIRCUIT



Resistance Values:

Tachometer Circuit:
Terminals 4–5
Approx. **115** ohms

Windings:

Terminals 1–2, 2–3, 1-3
Approx. **4.5** ohms

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Troubleshooting
Dryer

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
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- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

IMPORTANT: Refer to wiring diagram for aid in testing dryer components.

2. DRYER MOTOR DOES NOT RUN

POSSIBLE CAUSE	TO CORRECT
Electrical power off, fuse blown, or power cord not plugged in.	• Check laundry room for blown or loose fuse(s), or open circuit breaker(s). The dryer itself does not have an electrical fuse. • Check both fuses for electric models.
Loading door not closed.	• Close door.
Inoperative door switch.	• Test switch and replace if inoperative.
Timer improperly set.	• Reset timer or try another cycle.
Inoperative timer.	• Test timer and replace if inoperative.
Motor starting functions inoperative. Does not start, or motor just hums.	• Refer to *Paragraph 88* to check motor switch and motor windings.
Motor is dead, will not run.	• Refer to *Paragraph 88* to check motor switch, motor windings, and main windings.
Motor overload protector has cycled.	• Wait two or three minutes for overload protector to reset. If protector cycles repeatedly, refer to *Paragraph 3*.
Motor centrifugal switch sticky or plugged with lint.	• Remove dust or lint and spray with a cleaner and lubricant.
Bind in motor bearing.	• Remove belt and determine if motor shaft will spin. • Replace motor if shaft is locked up.
Loose motor wire harness connection block.	• Firmly press connection block onto motor switch.
Broken, loose, or incorrect wiring.	• Refer to wiring diagram.
Power cord is miswired.	• Refer to wiring diagram for the correct wiring.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

3. DRYER STOPS IN CYCLE; QUITS AFTER THE FIRST FEW LOADS; HAS A BURNING SMELL; CYCLES ON MOTOR THERMAL PROTECTOR

POSSIBLE CAUSE	TO CORRECT
Incorrect Voltage.	• Refer to nameplate in door well for correct voltage. • Refer to ***Installation Instructions*** (supplied with dryer) for electrical requirements.
Clothes load too large.	• Remove part of load. A normal washer load is a normal dryer load. Maximum load: dryer cylinder one half full of wet clothes.
Clothes cylinder is binding.	• Check cylinder for binding and “out of round” condition. • Check front and rear bulkheads for warping. • Check support rollers for binding. • Check cylinder seals and glides for wear or damage. • Check for clothes lodged between cylinder baffle and bulkhead.
Broken, loose or incorrect wiring.	• Refer to wiring diagram.
Motor switch functions inoperative. Short in motor winding.	• Refer to *Paragraph 88* to check switch and windings.
Clothes item caught in fan.	• Check fan for obstruction.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

4. DRYER MOTOR RUNS BUT CYLINDER DOES NOT TURN

POSSIBLE CAUSE	TO CORRECT
Motor drive pulley loose.	• Tighten pulley.
Belt not installed on pulley.	• Install belt. Refer to *Figure 43*.
Broken cylinder belt.	• Replace belt.
Clothes cylinder is binding.	• Check cylinder for binding and “out of round” condition. • Check front and rear bulkheads for warping. • Check cylinder rollers for binding. • Check cylinder seals and glides for wear or damage.
Broken, weak or disconnected idler lever spring.	• Replace or reconnect spring. Refer to *Figure 44*.
Belt routed on wrong side of idler lever.	• Reroute belt. Refer to *Figure 43*.
Oil on cylinder.	• Wipe oil from cylinder.
Belt is “inside out.”	• Reinstall belt with ribbed surface against cylinder.
Idler arm is binding.	• Add grease between idler arm and motor mount. • Replace idler arm and bolt if needed.
Dryer is overloaded.	• Remove some laundry from dryer.
Wrong motor.	• Refer to parts manual for correct motor part number.
Wrong belt used on dryer.	• Check belt part number against correct part number in the parts manual. • Replace belt if needed.
Bent idler arm.	• Replace idler arm.

5. DRYER MOTOR DOES NOT STOP

POSSIBLE CAUSE	TO CORRECT
Incorrect wiring to motor switch.	• Refer to wiring diagram.
Motor centrifugal switch sticky or plugged with lint.	• Remove dust or lint and spray with a cleaner and lubricant.
Inoperative door switch.	• Test switch and replace if inoperative.
Inoperative timer.	• Test timer and replace if inoperative.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

6. DRYER RUNS ONLY WHEN DOOR IS OPEN

POSSIBLE CAUSE	TO CORRECT
Door switch miswired.	• Rewire door switch. Refer to appropriate wiring diagram.

7. DRYER HEATING ASSEMBLY DOES NOT HEAT OR BURNER DOES NOT IGNITE

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust requirements.
Use of plastic or thin foil exhaust duct.	• Replace with rigid or semi-rigid metal exhaust duct.
Blown house fuse or tripped circuit breaker.	• Check fuses or circuit breakers.
Temperature selector switch set at FLUFF, or inoperative.	• Reset or test switch and replace if inoperative.
Timer improperly set (set in a cool-down period, or a no heat cycle).	• Reset timer. Try another cycle.
Inoperative limit thermostat.	• Test thermostat and replace if inoperative.
Inoperative drive motor switch.	• Test switch and replace if inoperative.
Electric Models: Inoperative heater assembly.	• Test heater assembly and replace if cold Ohms do not read between 9 and 10.5 Ohms.
Electric Models: Inoperative thermal fuse.	• Test thermal fuse and replace if inoperative.
Gas Models: Insufficient gas supply.	• Check gas shut-off valve in dryer and main gas line valve. • Open partially closed gas shut-off valve, or correct low gas pressure.
Gas Models: Inoperative gas valve coils.	• Test coils and replace if inoperative. Refer to *Paragraph 92*.
Gas Models: Inoperative sensor.	• Test sensor and replace if inoperative. Refer to *Paragraph 65, step e.*
Gas Models: Inoperative igniter.	• Test igniter and replace if inoperative. Refer to *Paragraph 94*.
Gas Models: Harness not properly connected to gas controls.	• Check harness connections to gas valve coils, sensor and main harness. • Reconnect as required.
Gas Models: Restricted gas flow in gas orifice.	• Clean out gas orifice.
Inoperative cycling thermostat.	• Test thermostat and replace if inoperative.
Inoperative timer.	• Test timer and replace if inoperative.
Broken, loose, or incorrect wiring.	• Refer to wiring diagram.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

8. IGNITER DOES NOT GLOW (Gas Supply Sufficient) – GAS DRYER MODELS

POSSIBLE CAUSE	TO CORRECT
No power to power leads on valve.	• Check thermostats, motor switch, and wiring.
Sensor failed with contacts open.	• Replace sensor.
Igniter broken or open.	• Replace igniter.

9. BURNER IGNITES AND GOES OUT REPEATEDLY – GAS DRYER MODELS

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system. Weather hood flapper restricted.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust requirements.
Burner heat not holding sensor contacts open.	• Replace sensor, or correct gas supply problem.
Insufficient gas supply.	• Check gas supply and pressure. • Make sure gas shut-off valve is turned on.
Cracked igniter.	• Replace igniter and bracket.
Inoperative or intermittent gas valve coils.	• Check coils and replace appropriate coils. Refer to *Paragraph 92*.

10. IGNITER GLOWS BUT BURNER DOES NOT IGNITE – GAS DRYER MODELS

POSSIBLE CAUSE	TO CORRECT
Sensor failed in closed position.	• Replace sensor.
Open secondary coil or holding coil.	• Replace gas valve (in-warranty), or replace coils (out-of-warranty). Refer to *Paragraph 92*.
Insufficient gas supply.	• Check gas supply and pressure. • Make sure gas shut-off valve is turned on.
Igniter and bracket installed improperly on burner tube assembly.	• Loosen screw and properly position igniter and bracket on burner tube assembly.
Sensor installed improperly on burner housing.	• Loosen screw and properly position the sensor on the burner housing.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
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- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

11. DRYER HEATER ASSEMBLY OR BURNER SHUTS OFF PREMATURELY

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system. Weather hood flapper restricted.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust requirements.
Gas Models: Insufficient gas supply.	• Check main gas line shut-off valve. • Open partially closed gas shut-off valve, or correct low pressure.
Gas Models: Dryer not properly equipped for type of gas used.	• Refer to "Gas Burner Conversion Procedures" supplied in gas burner conversion kit.
Gas Models: Improperly adjusted burner flame.	• Adjust flame. Refer to *Paragraph 85*.
Cycling off on limit thermostat.	• Momentarily connect a jumper wire across thermostat terminals. If heater element heats or burner ignites when jumper wire is connected, refer to *Paragraph 12*.
Gas models: Sensor contact closing	• Replace sensor (*Paragraph 65, step e*) or adjust burner flame. Refer to *Paragraph 85*.
Inoperative cycling thermostat.	• Test thermostat and replace if inoperative.
Inoperative timer.	• Test timer and replace if inoperative.
Broken, loose, or incorrect wiring.	• Refer to wiring diagram.

12. DRYER HEATER ASSEMBLY OR BURNER REPEATEDLY CYCLES OFF ON LIMIT THERMOSTAT

POSSIBLE CAUSE	TO CORRECT
External exhaust system longer or providing greater restriction than recommended.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust system requirements.
Use of plastic or thin foil exhaust duct.	• Replace with rigid or semi-rigid metal exhaust duct.
Clogged lint filter.	• Clean lint filter.
Lint in internal dryer ductwork.	• Disassemble dryer ductwork and clean.
Lint or other obstruction in external exhaust system.	• Disassemble and clean exhaust system.
Hinged damper on exhaust system weather hood not free to open.	• Free hinged damper or replace weather hood.
Limit thermostat cycling at too low a temperature.	• Replace thermostat. Refer to *Paragraph 67*.
Air leak around loading door. (Door not sealing due to damaged seal or inoperative door catch.)	• Replace seal or catch.
Air leak at blower seal.	• Check and replace seal if necessary.
Air leak at cylinder seal(s).	• Check and replace seal(s) if necessary.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

13. DRYER HEATER ASSEMBLY OR BURNER DOES NOT SHUT OFF

POSSIBLE CAUSE	TO CORRECT
Improper motor switch. (Control must be in a heat setting.)	• Test switch and replace if inoperative.
Motor does not stop.	• Refer to *Paragraph 5*.
Incorrect wiring.	• Refer to wiring diagram.
Heater assembly shorted.	• Remove heater assembly and check for short.

14. CLOTHES DO NOT DRY IN DRYER

POSSIBLE CAUSE	TO CORRECT
Heater assembly does not heat or burner does not ignite.	• Refer to *Paragraph 7*.
Too much water in articles being dried.	• Remove excess water.
Laundry load too large.	• Remove part of load. A normal washer load is a normal dryer load. Maximum load: Dryer cylinder one half full of wet clothes.
Laundry load too small.	• Add one or two bath towels to load.
Excessive lint on lint filter.	• Clean lint filter.
Heat selector switch or timer inoperative.	• Test and replace switch or timer if inoperative.
Improper or inadequate exhaust system.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust requirements.
Heater assembly or burner shuts off prematurely.	• Refer to *Paragraph 11*.
Gas Models: Gas line pressure too high or too low.	• If Natural Gas line pressure to dryer exceeds 8 inch water column pressure, or is lower than 4 inch water column, ask Gas Company to correct.
Improper belt installation (Low RPM).	• Check for proper installation. Refer to *Figure 43*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

15. TIMER DOES NOT ADVANCE IN AUTOMATIC CYCLE

POSSIBLE CAUSE	TO CORRECT
Inoperative cycling thermostat.	• Test thermostat and replace if inoperative.
Inoperative resistor (Electric Models).	• Test resistor and replace if inoperative.
Heater assembly does not heat or burner does not ignite.	• Refer to *Paragraph 4*.
Heater assembly or burner cycles off prematurely.	• Refer to *Paragraph 8*.
Improper or inadequate exhaust system.	• Refer to INSTALLATION INSTRUCTIONS (supplied with dryer) for exhaust requirements.
Drying large load.	• Timer will not advance until the load is almost dry.
Broken, loose or incorrect wiring.	• Refer to wiring diagram.
Timer motor is inoperative.	• Select a drying cycle and activate start switch. • Rotate timer knob until signal sounds. • Release timer knob. • Signal should stop within ten minutes. If not, replace timer.
Inoperative seals (air leaks).	• Check and replace any inoperative seals in the following areas: 1. Seal between loading door and front panel. 2. Seal between front panel and front bulkhead. 3. Seal between blower cover and air duct. 4. Seal between cylinder and front or rear bulkhead. 5. Gap between air duct and filter mounting.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

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16. CLOTHES ARE TOO HOT WHEN REMOVED FROM DRYER

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust requirements.
Clothes are removed from dryer before cycle has completed.	• Allow the dryer to complete the cycle through the cool-down to the OFF position.
Inoperative cycling thermostat.	• Test cycling thermostat and replace if inoperative.
Inoperative timer (not allowing cool-down).	• Test timer and replace if inoperative.
Inoperative seals (air leaks).	• Check and replace any inoperative seals in the following areas: 1. Seal between loading door and front panel. 2. Seal between front panel and front bulkhead. 3. Seal between blower cover and air duct. 4. Seal between cylinder and front or rear bulkhead. 5. Gap between air duct and filter mounting.

17. EXCESSIVE CHATTERING OR VIBRATING NOISE IN DRYER

POSSIBLE CAUSE	TO CORRECT
Inoperative idler spring.	• Remove lower access panel. Set dryer to normal cycle and allow it to heat to operating temperature. If the belt vibrates as it rotates around the cylinder, the idler arm is making the noise. Replace the idler spring. Refer to *Figure 41*.

18. EXCESSIVE HUMMING OR WHISTLING NOISE IN DRYER

POSSIBLE CAUSE	TO CORRECT
Inoperative blower housing.	• If the abnormal operating noise is loudest at the vent exit, the problem is originating from the blower housing. Replace the current housing and cover. Refer to *Figure 42*.

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Notes

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Troubleshooting
Washer Control

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

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19. WASHER ERROR CODE LISTING

Error Conditions

If any of the following errors occur, the control enters Error Mode. For all fatal errors, the control will terminate the current cycle, turn off all outputs, and flash two LEDs one second on/one second off to indicate the error.

Motor Failure Error.	If the control receives the motor failure signal from the motor control, the control will enter Error Mode. The control will turn off all outputs and flash the DOOR and FINAL SPIN LEDs one second on/one second off to indicate a motor failure error. This is a fatal error. The machine must be unpowered to clear this error.
Fill Error.	If the control receives no full input from the pressure switch indicating the cylinder is full within 30 minutes of starting the fill, the control will enter Error Mode. The control will turn off all outputs and flash the WASH and DOOR LEDs one second on/one second off to indicate a fill error. This is a fatal error. The machine must be unpowered to clear this error.
Door Open Error.	If the control senses the door open during Run Mode, the control will enter Error Mode. The control will turn off all outputs and flash the WASH and RINSE LEDs one second on/one second off to indicate a door open error. This is a fatal error. The machine must be unpowered to clear this error.
Door Lock/Unlock Error.	If the door doesn't lock in 15 seconds in Door Locking Mode or the door doesn't unlock in 3 minutes in Door Unlocking Mode, the control will enter Door Lock Error Mode. The control will turn off all outputs and flash the DOOR LED one second on/one second off to indicate a door lock/unlock error. To clear this error in Door Locked Mode the door must either open or lock. If the door locks, the cycle will start normally. If the door opens, the control will revert back to Start Mode. To clear this error in Door Unlocking Mode the door must unlock or open. If the door unlocks or opens, the control will enter End of Cycle Mode.
SPI Communications Error.	This error occurs when there is a problem with communications between the front-end control and the motor control. The control will turn off all outputs and flash the FINAL SPIN and RINSE LEDs one second on/one second off to indicate an SPI communications error. This is a fatal error. The machine must be powered down at this point.
Open/Shorted Temperature Sensor Error (Models equipped with heater)	Any time the control senses a temperature less than 32°F (0°C) or greater than 212°F (100°C) while heating, the control will turn off the heater output and not attempt to heat. The control will continue and finish the cycle normally. At the end of the cycle the control will flash the HEATING LED one-second on/one second off to indicate an open/shorted temperature sensor error. This error will be cleared when the door is opened at the end of the cycle.

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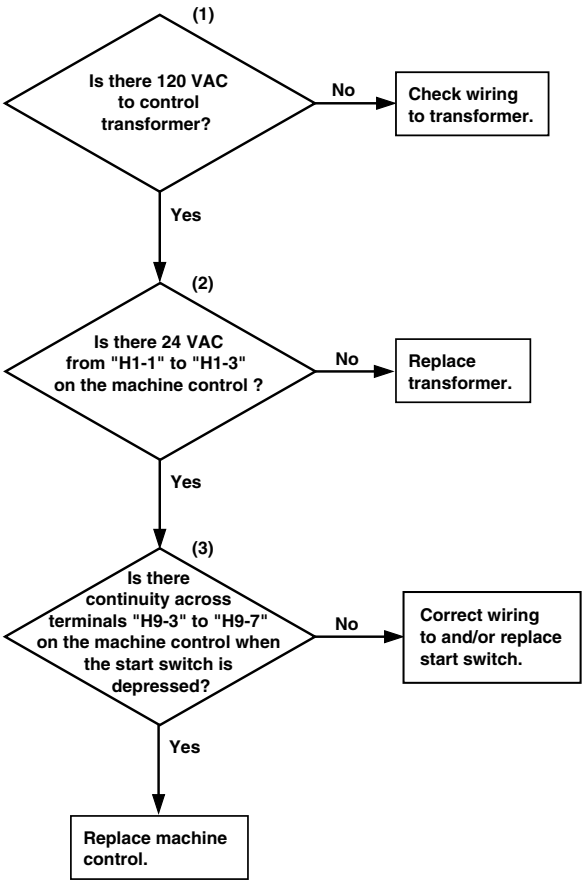
20. WASHER WILL NOT START – NO LEDS/LIGHTS LIT (NO RESPONSE TO START SWITCH)



FLW1726S

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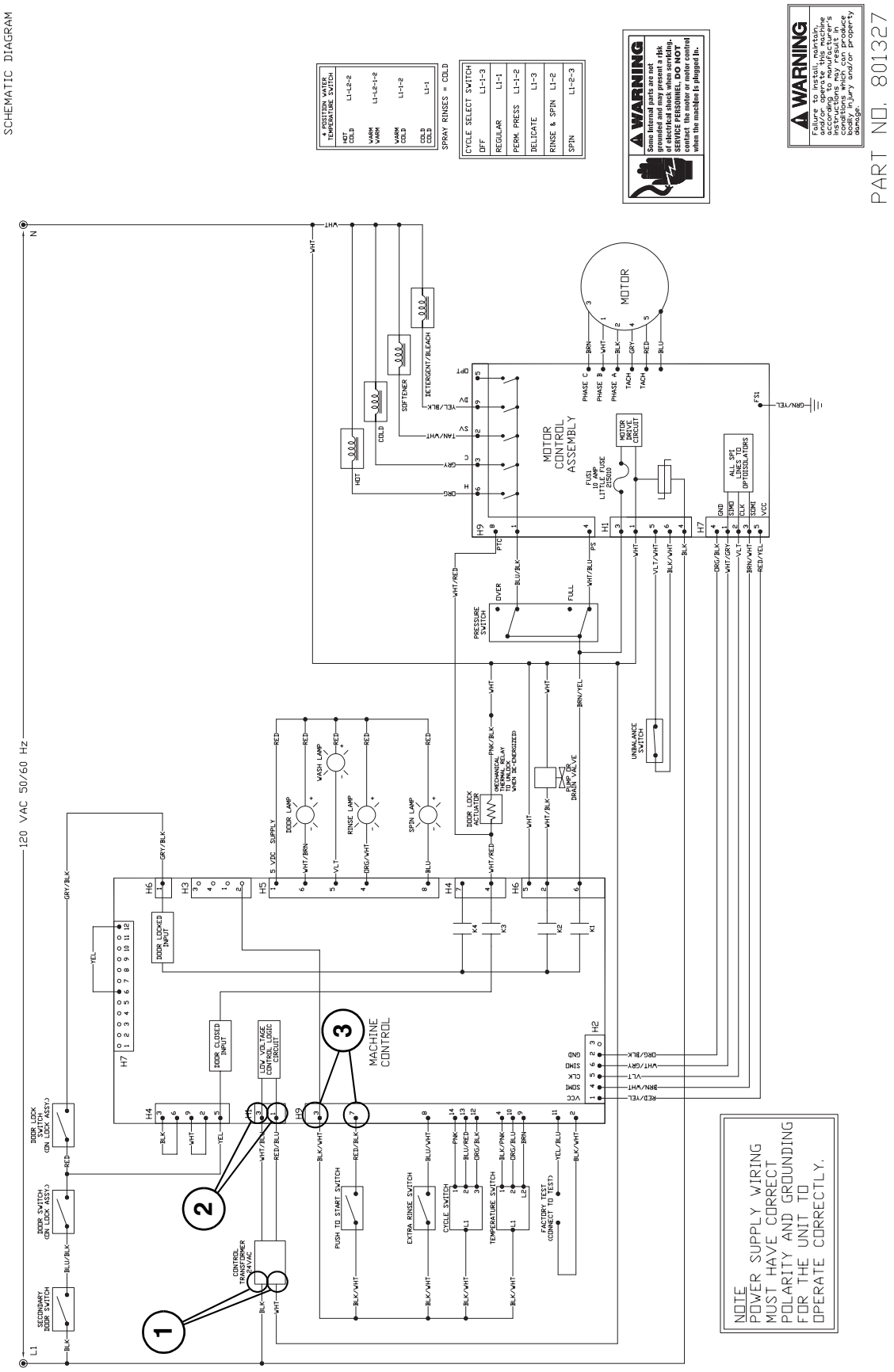
WASHER WILL NOT START – NO LEDS/LIGHTS LIT (NO RESPONSE TO START SWITCH)



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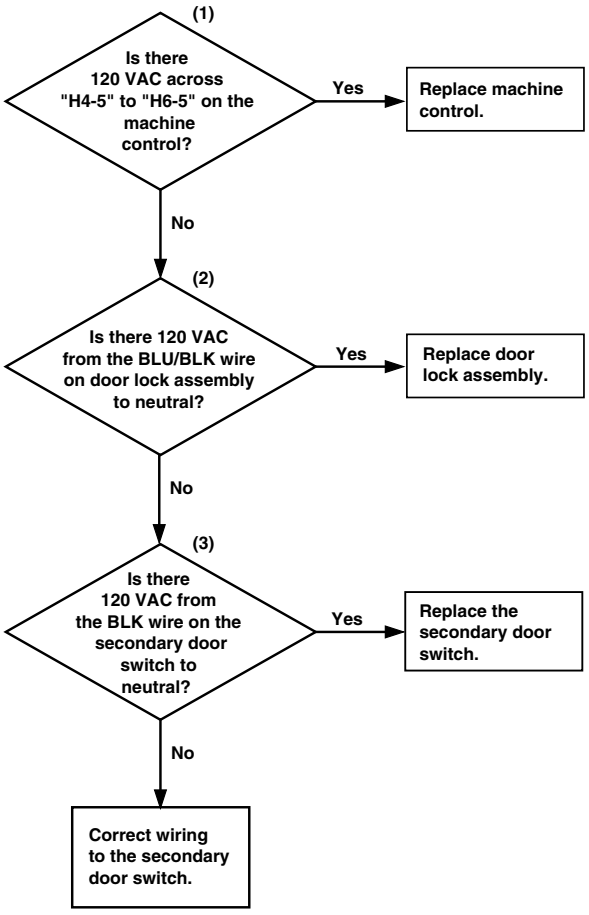
21. WASHER WILL NOT START – DOOR OPEN ERROR (WASH/RINSE LEDS FLASHING – DOOR MUST BE CLOSED AND ATTEMPTING TO LOCK)


(1)
Is there 120 VAC across "H4-5" to "H6-5" on the machine control?
Yes
Replace machine control.
No
(2)
Is there 120 VAC from the BLU/BLK wire on door lock assembly to neutral?
Yes
Replace door lock assembly.
No
(3)
Is there 120 VAC from the BLK wire on the secondary door switch to neutral?
Yes
Replace the secondary door switch.
No
Correct wiring to the secondary door switch.

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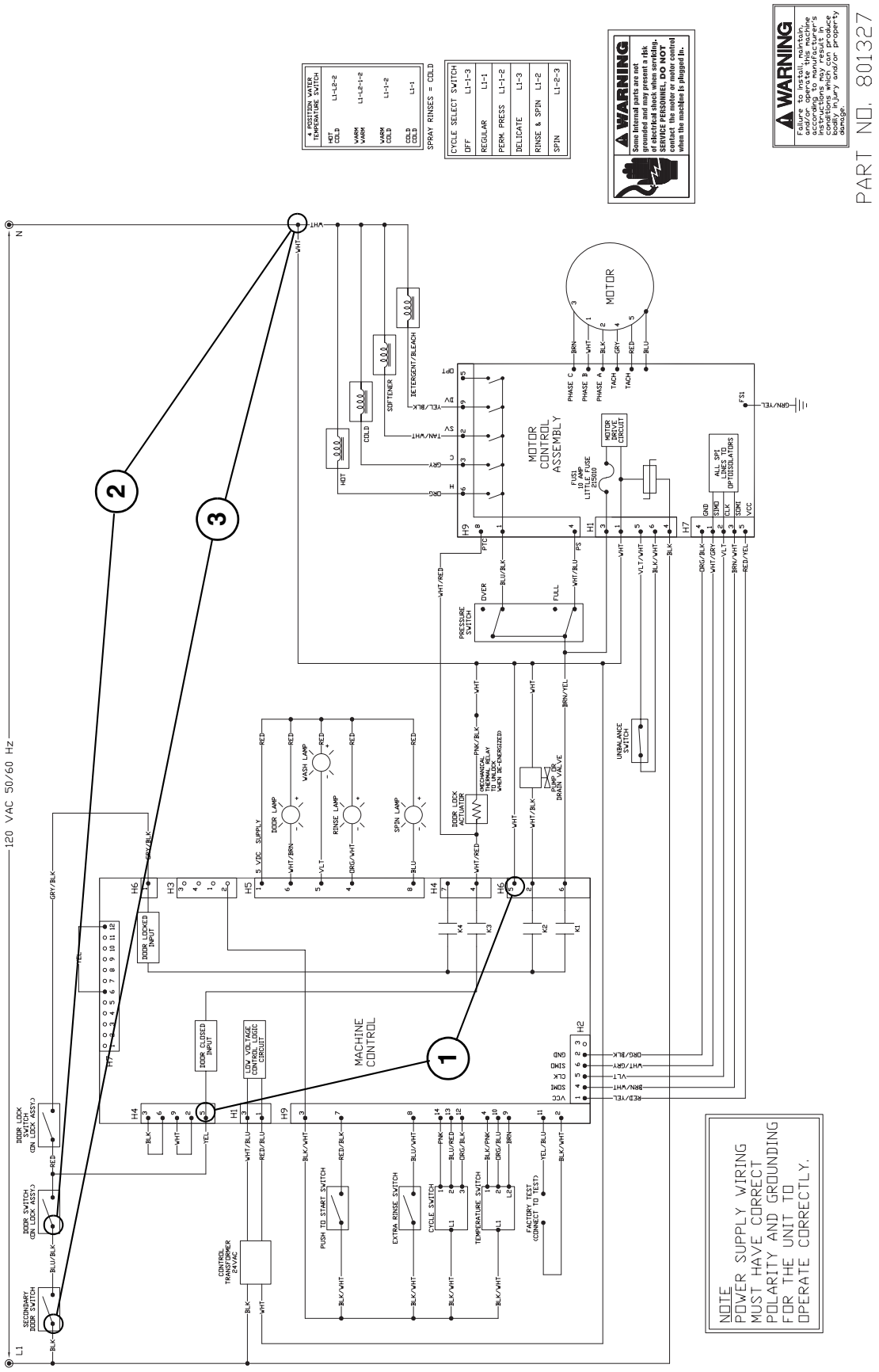
WASHER WILL NOT START – DOOR OPEN ERROR (WASH/RINSE LEDS FLASHING – DOOR MUST BE CLOSED AND ATTEMPTING TO LOCK)



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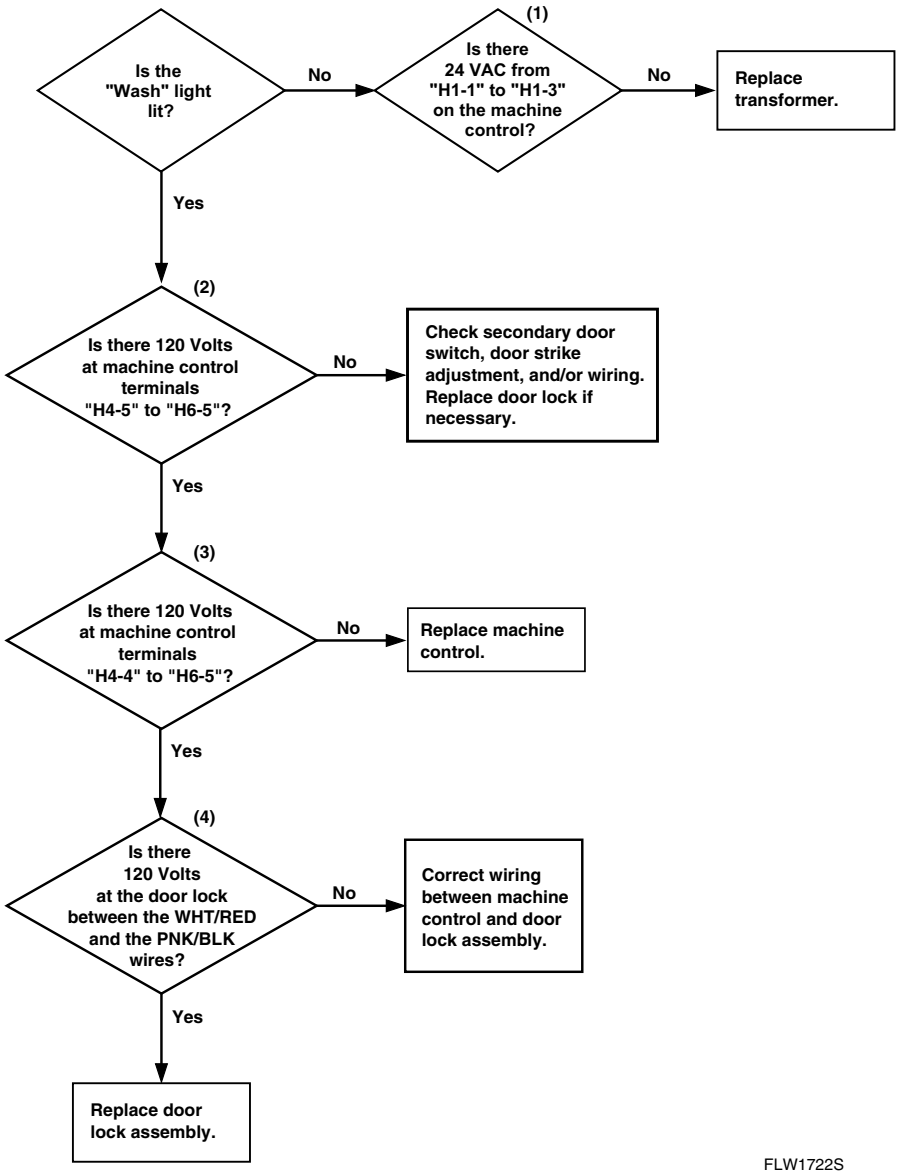
22. WASHER WILL NOT START – NO DOOR LOCK (DOOR LED FLASHING)


Is the "Wash" light lit?
No
(1)
Is there 24 VAC from "H1-1" to "H1-3" on the machine control?
No
Replace transformer.
Yes
(2)
Is there 120 Volts at machine control terminals "H4-5" to "H6-5"?
No
Check secondary door switch, door strike adjustment, and/or wiring. Replace door lock if necessary.
Yes
(3)
Is there 120 Volts at machine control terminals "H4-4" to "H6-5"?
No
Replace machine control.
Yes
(4)
Is there 120 Volts at the door lock between the WHT/RED and the PNK/BLK wires?
No
Correct wiring between machine control and door lock assembly.
Yes
Replace door lock assembly.
FLW1722S

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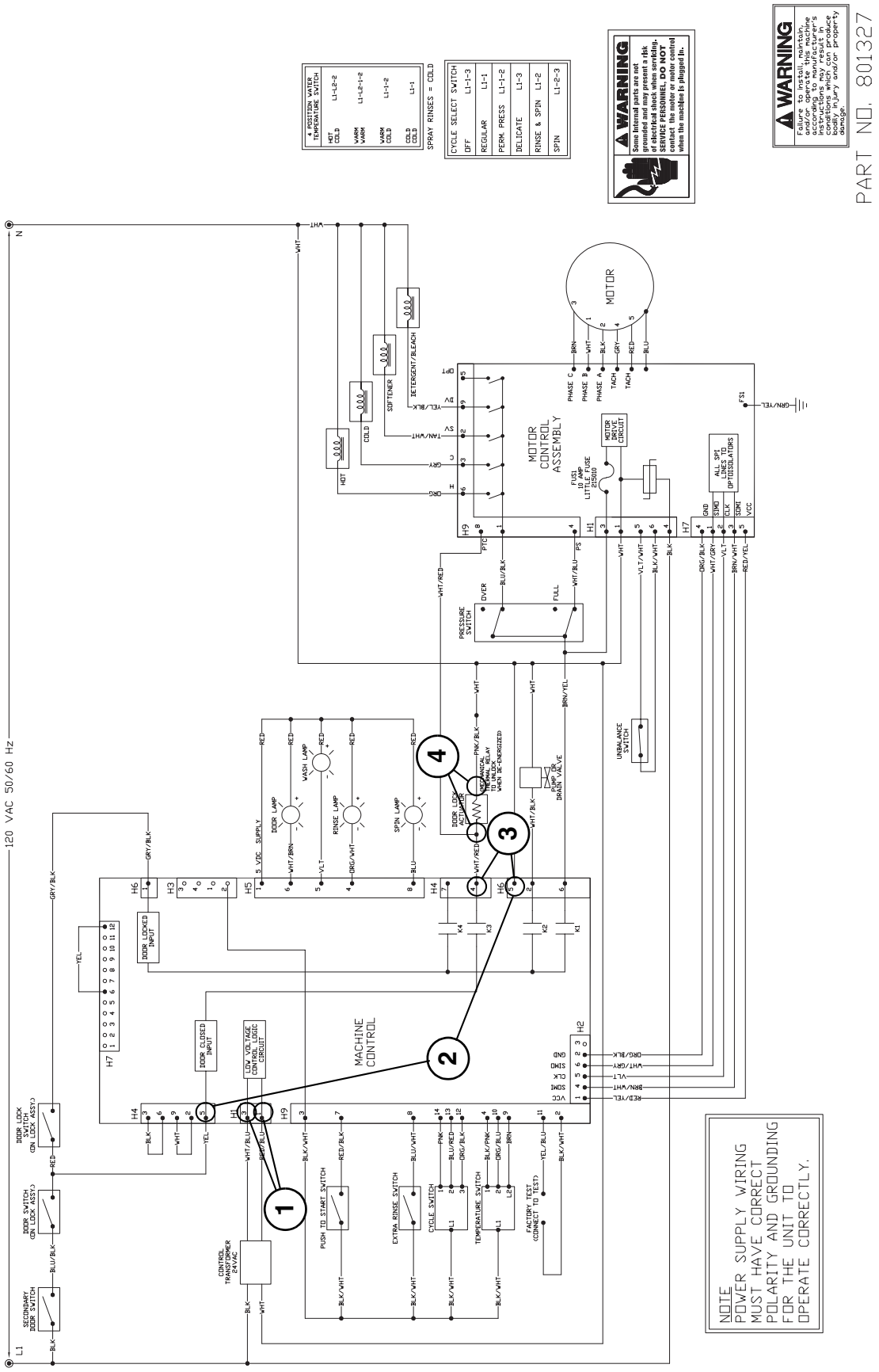
WASHER WILL NOT START – NO DOOR LOCK (DOOR LED FLASHING)



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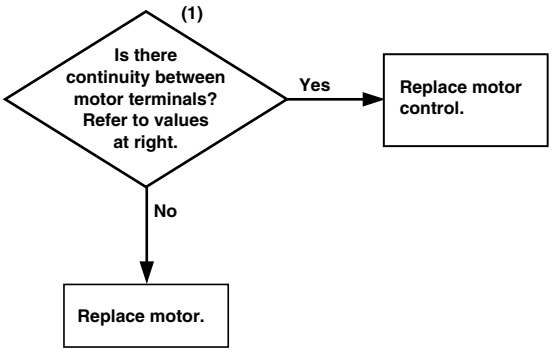
23. WASHER MOTOR WILL NOT RUN (DOOR/FINAL SPIN LEDS FLASHING)



Motor Resistance Values:
Tach. Circuit: Approx. 115 ohms (Terminals 4-5)
Windings: Approx. 4 - 5 ohms (Terminals 1-2, 1-3, 2-3)

FLW1712S

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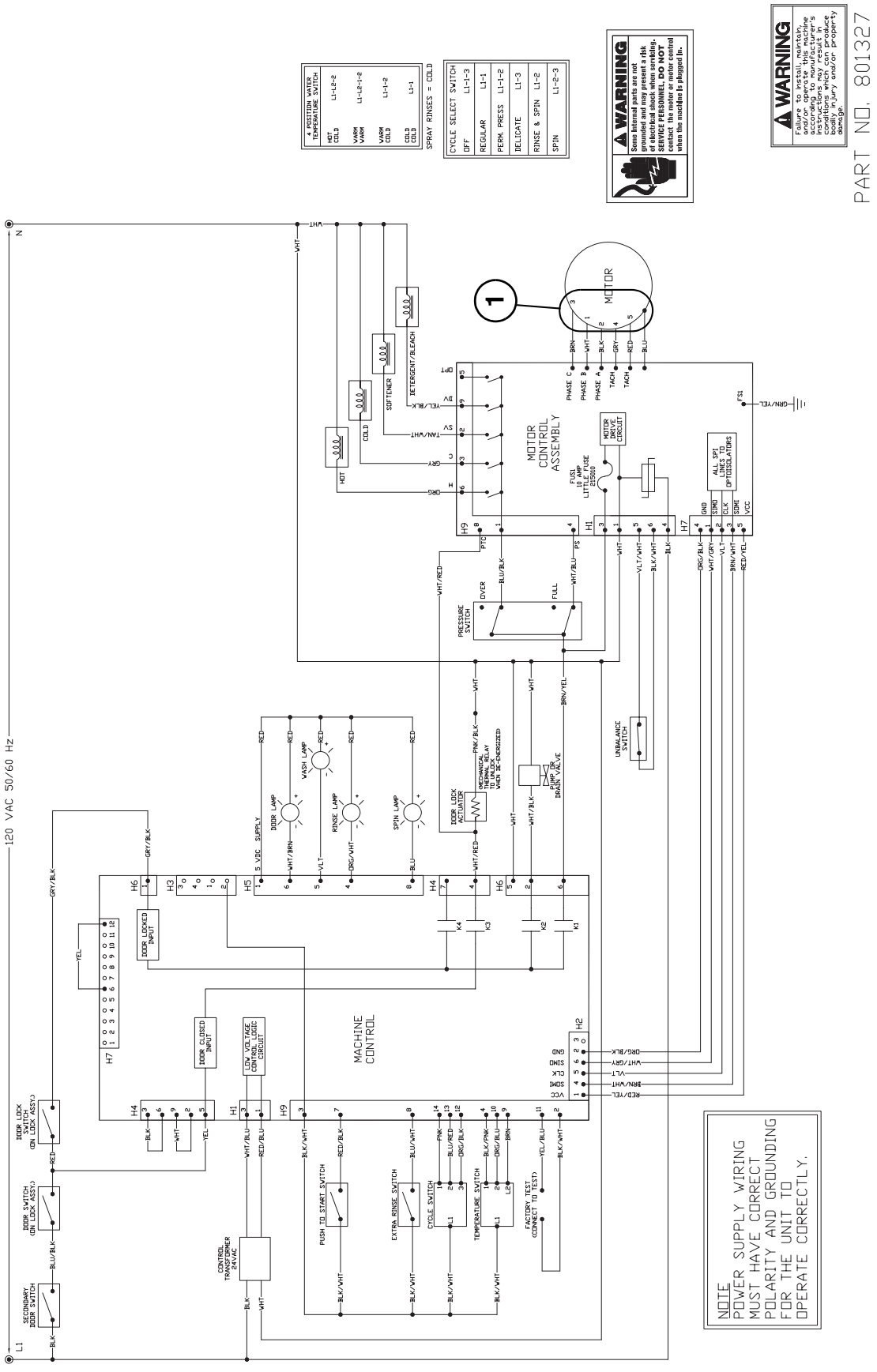
WASHER MOTOR WILL NOT RUN
(DOOR/FINAL SPIN LEDS FLASHING)



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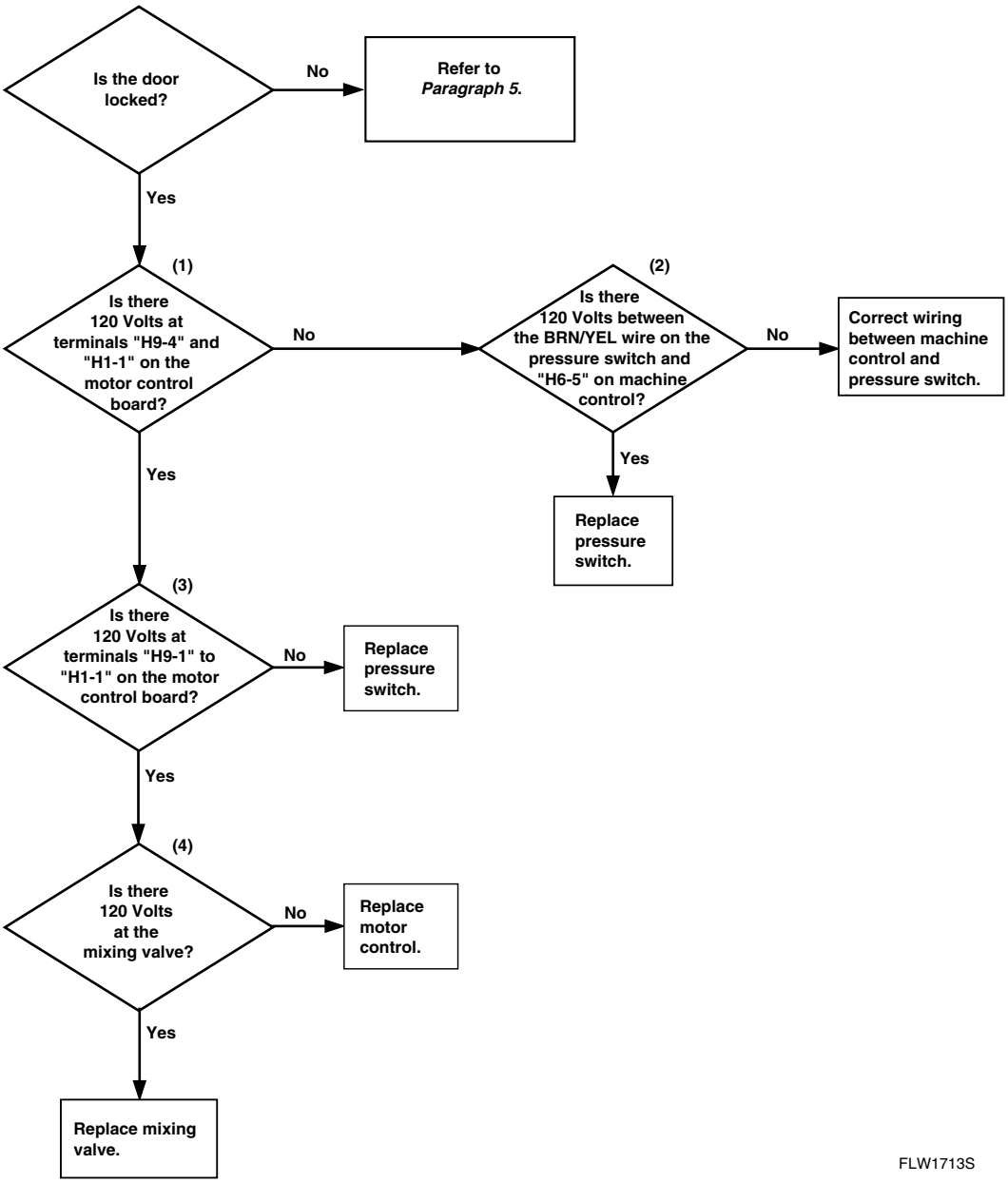
24. WASHER WILL NOT FILL – NO COMMUNICATION ERROR (WASH/DOOR LEDS FLASHING)



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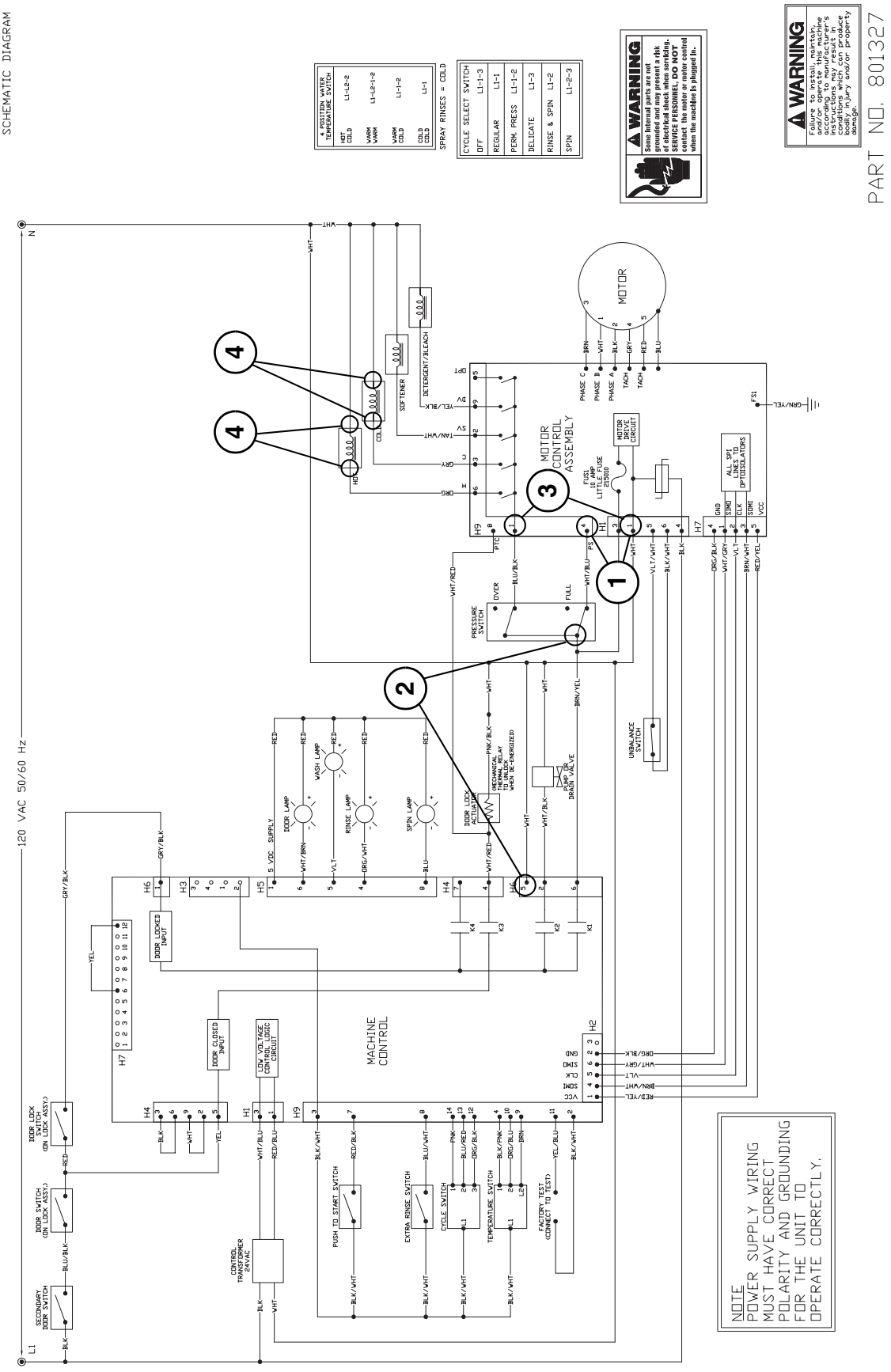
WASHER WILL NOT FILL – NO COMMUNICATION ERROR (WASH/DOOR LEDS FLASHING)


SCHEMATIC DIAGRAM
PART NO. 801327
WARNING
Failure to install, maintain, and/or operate this machine according to manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.
WARNING
Some internal parts are not grounded and may present a risk of electrical shock when servicing. SERVICE PERSONNEL DO NOT contact the motor or motor control when the machine is plugged in.
4 POSITION WATER TEMPERATURE SWITCH
HOT COLD L1-L2-2
WARM WARM L1-L2-1-2
WARM COLD L1-1-2
COLD COLD L1-1
SPRAY RINSES = COLD
CYCLE SELECT SWITCH
OFF L1-1-3
REGULAR L1-1
PERM. PRESS L1-1-2
DELICATE L1-3
RINSE & SPIN L1-2
SPIN L1-2-3
120 VAC 50/60 Hz
MOTOR
MOTOR CONTROL ASSEMBLY
MACHINE CONTROL
DOOR LOCK ACTUATOR (ON LOCK ASS'Y)
DOOR SWITCH (ON LOCK ASS'Y)
SECONDARY DOOR SWITCH
CONTROL TRANSFORMER 24VAC
PUSH TO START SWITCH
EXTRA RINSE SWITCH
CYCLE SWITCH
TEMPERATURE SWITCH
FACTORY TEST (CONNECT TO TEST)
DOOR LOCKED INPUT
DOOR CLOSED INPUT
LOW VOLTAGE CONTROL LOGIC CIRCUIT
DOOR LAMP
WASH LAMP
RINSE LAMP
SPIN LAMP
DOOR LOCK ACTUATOR
MECHANICAL THERMAL RELAY TO MAKE WHEN DE-ENERGIZED
PUMP OR DRAIN VALVE
UNBALANCE SWITCH
PRESSURE SWITCH
OVER
FULL
DETERGENT/BLEACH
SOFTENER
MOTOR BRAKE CIRCUIT
FUSE 10 AMP LITTLE FUSE 235010
ALL SPI LINES TO OPTOISOLATORS
NOTE
POWER SUPPLY WIRING MUST HAVE CORRECT POLARITY AND GROUNDING FOR THE UNIT TO OPERATE CORRECTLY.

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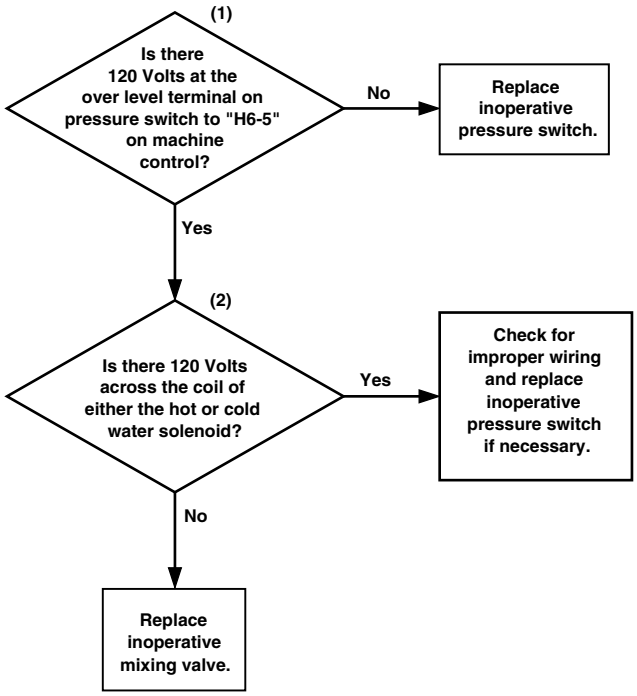
25. WASHER OVERFLOWS


(1)
Is there 120 Volts at the over level terminal on pressure switch to "H6-5" on machine control?
No
Replace inoperative pressure switch.
Yes
(2)
Is there 120 Volts across the coil of either the hot or cold water solenoid?
Yes
Check for improper wiring and replace inoperative pressure switch if necessary.
No
Replace inoperative mixing valve.

FLW1665S

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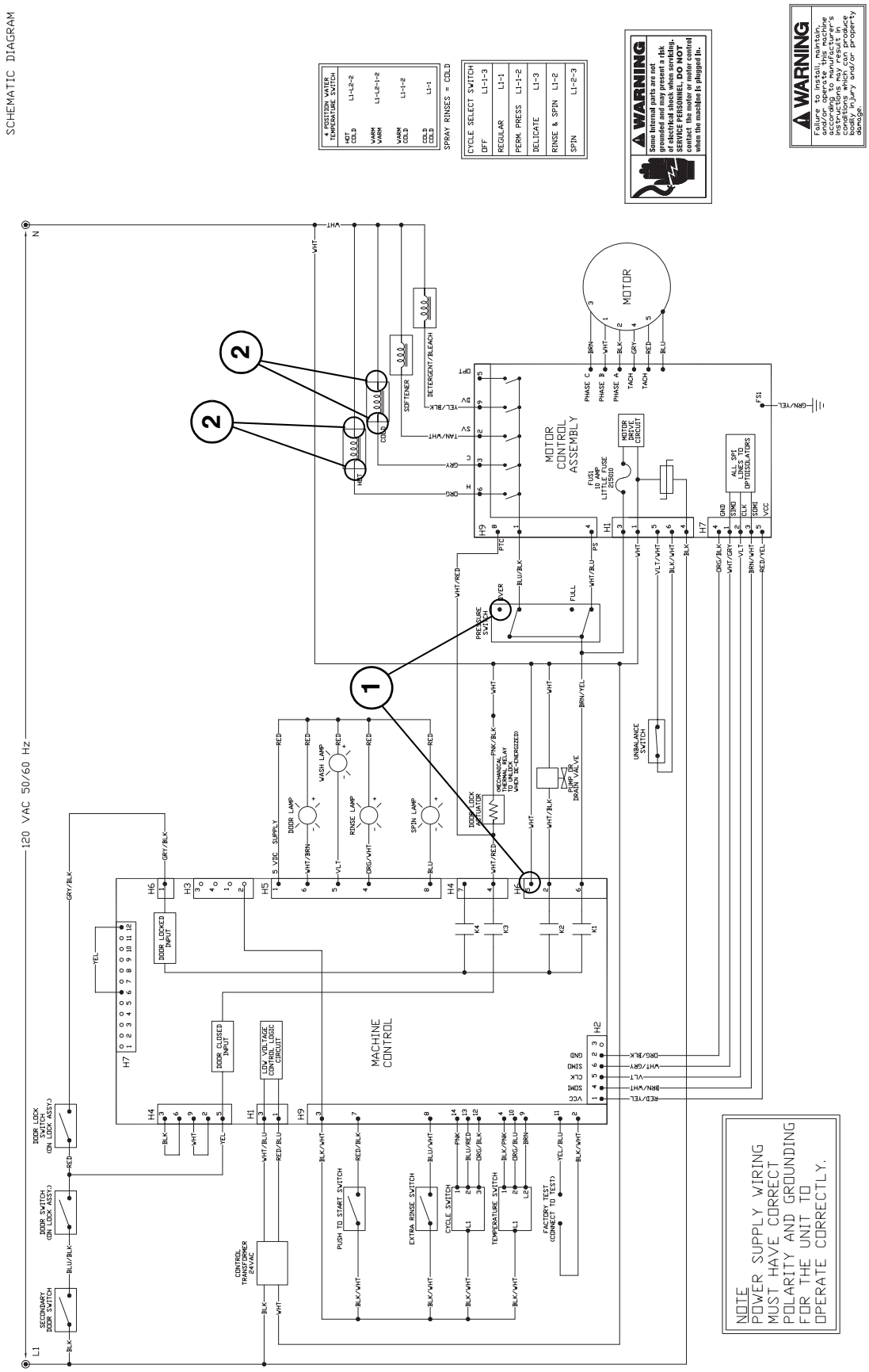
WASHER OVERFLOWS


SCHEMATIC DIAGRAM
PART NO. 801327
WARNING
Some internal parts are not grounded and may present a risk of electrical shock when servicing. SERVICE PERSONNEL, DO NOT contact the motor or motor control when the machine is plugged in.
WARNING
Failure to install, maintain, and/or operate this machine according to manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.
4 POSITION WATER TEMPERATURE SWITCH
HOT COLD L1-L2-2
WARM WARM L1-L2-1-2
WARM COLD L1-1-2
COLD COLD L1-1
SPRAY RINSES = COLD
CYCLE SELECT SWITCH
OFF L1-1-3
REGULAR L1-1
PERM PRESS L1-1-2
DELICATE L1-3
RINSE & SPIN L1-2
SPIN L1-2-3
120 VAC 50/60 Hz
MOTOR
MOTOR CONTROL ASSEMBLY
MACHINE CONTROL
NOTE
POWER SUPPLY WIRING MUST HAVE CORRECT POLARITY AND GROUNDING FOR THE UNIT TO OPERATE CORRECTLY.

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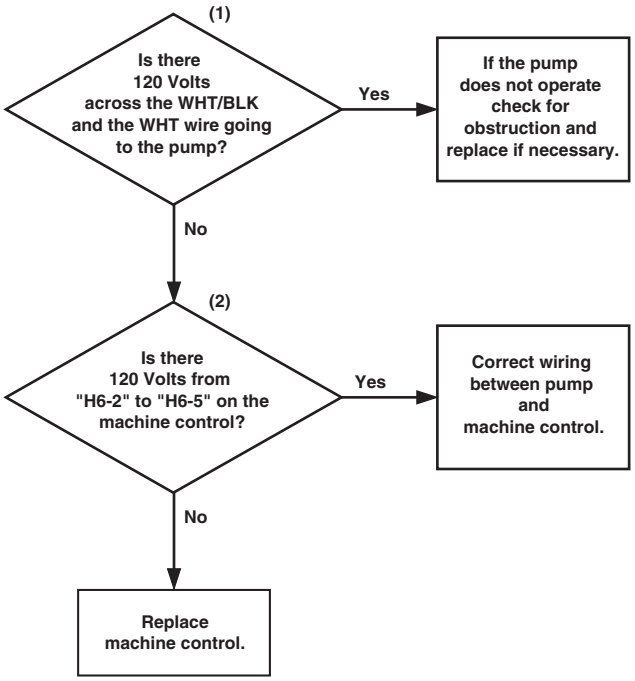
26. PUMP DOES NOT OPERATE

NOTE: Check at beginning of spin/drain portion of cycle.


(1)
Is there 120 Volts across the WHT/BLK and the WHT wire going to the pump?
Yes
If the pump does not operate check for obstruction and replace if necessary.
No
(2)
Is there 120 Volts from "H6-2" to "H6-5" on the machine control?
Yes
Correct wiring between pump and machine control.
No
Replace machine control.

FLW1670S

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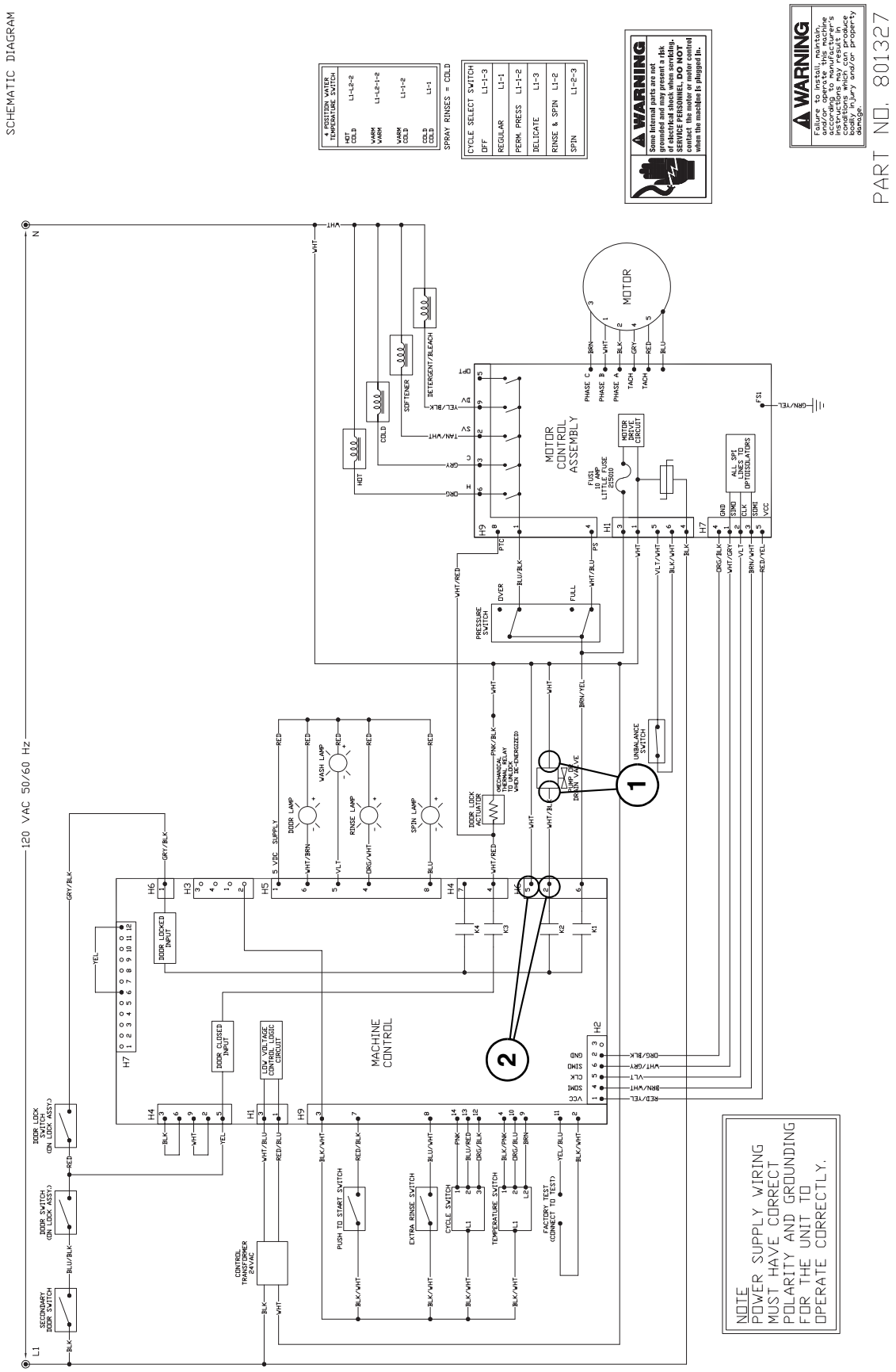
PUMP DOES NOT OPERATE



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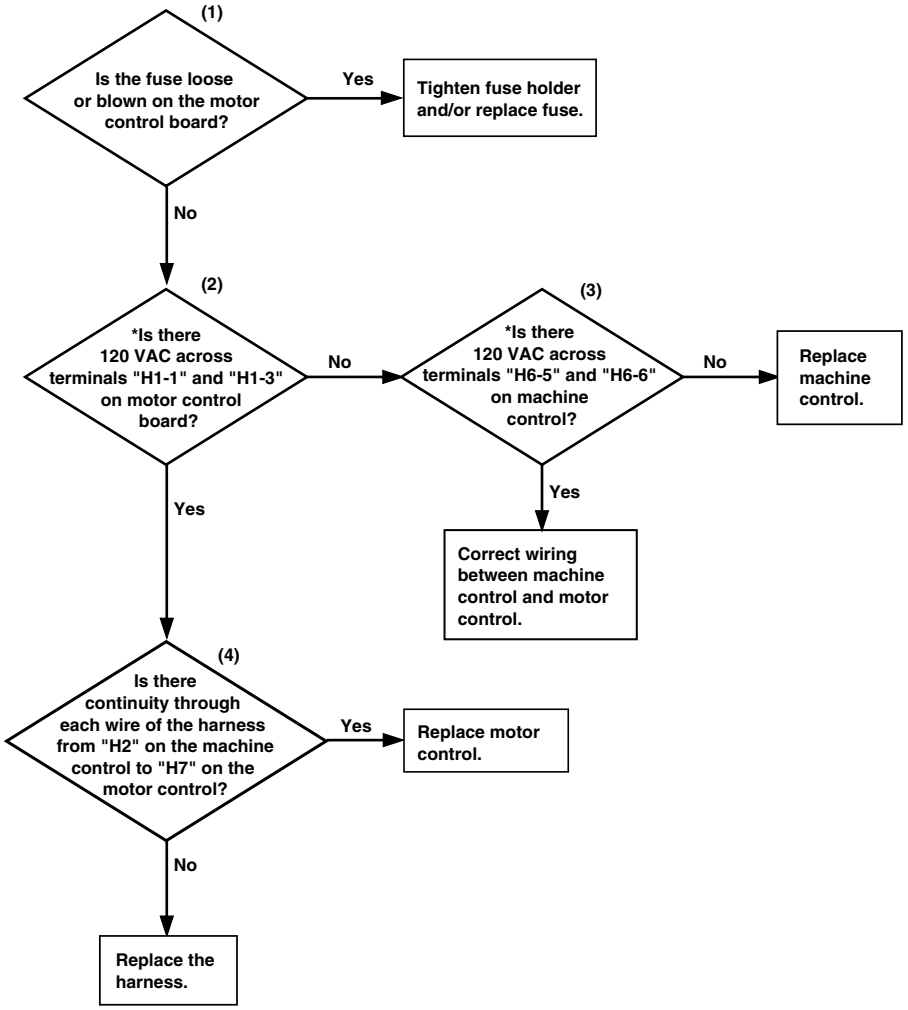
27. SERIAL COMMUNICATION ERROR (FINAL SPIN/RINSE LEDS FLASHING)


(1)
Is the fuse loose or blown on the motor control board?
Yes
Tighten fuse holder and/or replace fuse.
No
(2)
*Is there 120 VAC across terminals "H1-1" and "H1-3" on motor control board?
No
(3)
*Is there 120 VAC across terminals "H6-5" and "H6-6" on machine control?
No
Replace machine control.
Yes
Correct wiring between machine control and motor control.
Yes
(4)
Is there continuity through each wire of the harness from "H2" on the machine control to "H7" on the motor control?
Yes
Replace motor control.
No
Replace the harness.

FLW1714S

***NOTE: Machine must be restarted to check voltage. Voltage is intermittently present for the first 15 seconds until error mode is displayed.**

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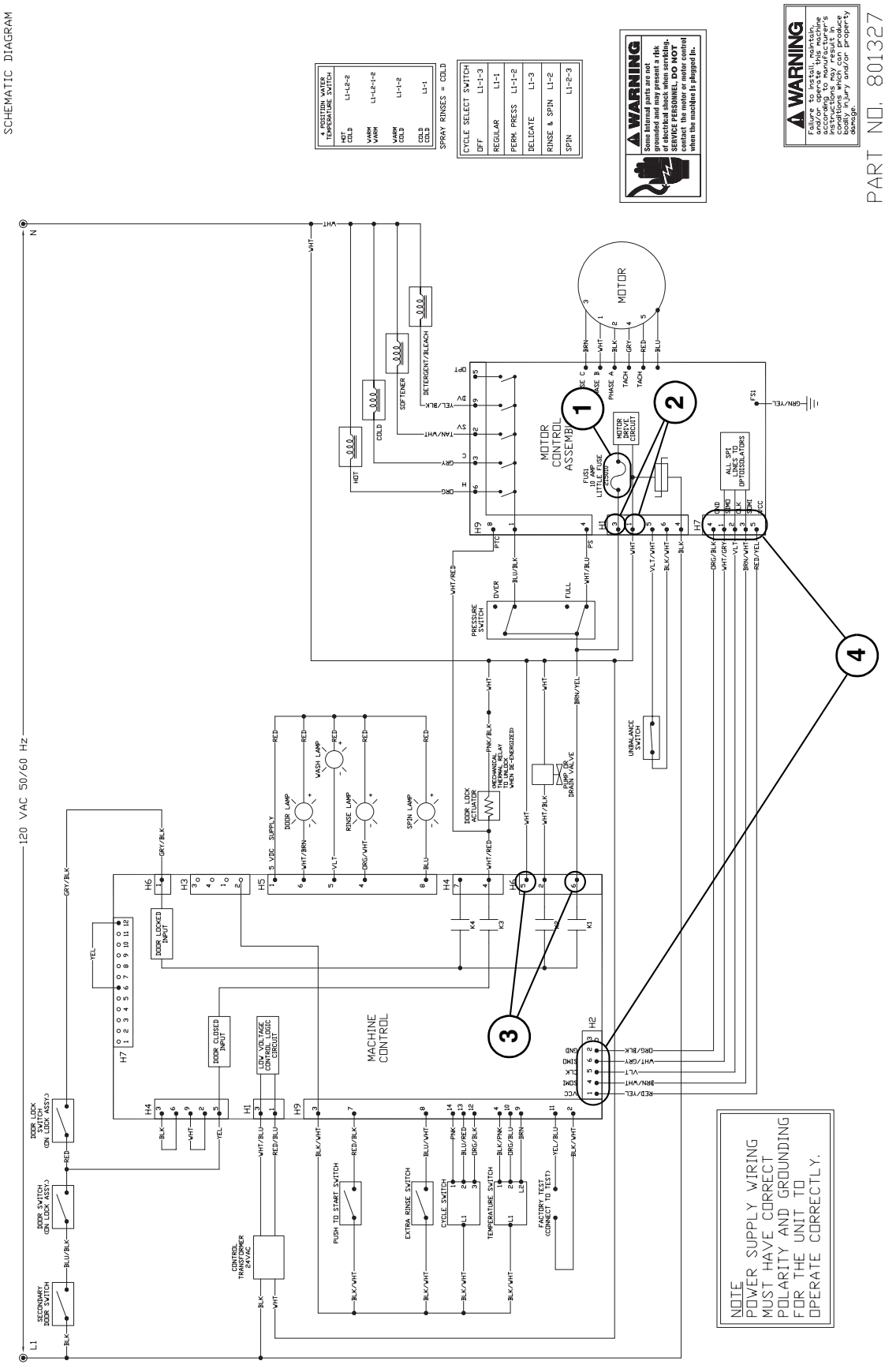
SERIAL COMMUNICATION ERROR (FINAL SPIN/RINSE LEDS FLASHING)



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Notes

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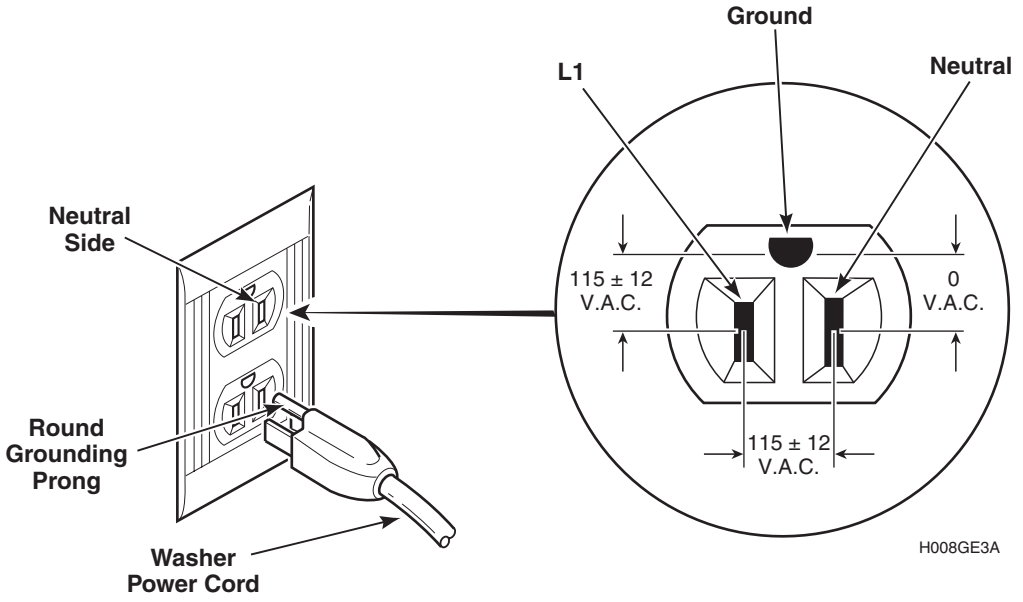
Section 4
Grounding

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

28. WALL RECEPTACLE POLARITY CHECK (Washer Power Cord)
Refer to *Figure 1*.



NOTE: Have a qualified electrician check polarity of wall receptacle. If a voltage reading is measured other than that illustrated, the qualified electrician should correct the problem.

Figure 1

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

29. GROUND WIRES FROM POWER CORD TO REAR BULKHEAD AND FROM REAR BULKHEAD TO CONTROL CABINET
Check Wall Receptacle Polarity (Gas Dryer Models Only)
Refer to *Figure 2*.

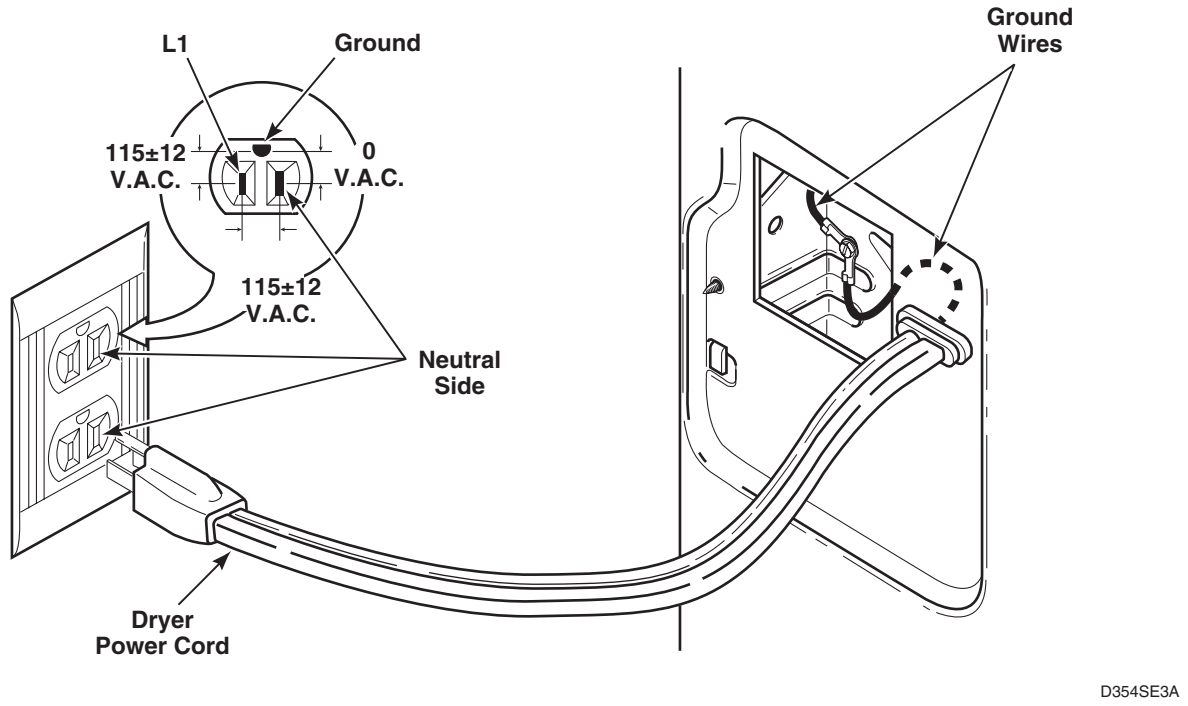

Figure 2

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

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30. GROUND WIRE FROM TERMINAL BLOCK TO REAR BULKHEAD AND FROM REAR BULKHEAD TO CONTROL CABINET
(Electric Dryer Models Only)
Refer to *Figure 3*.

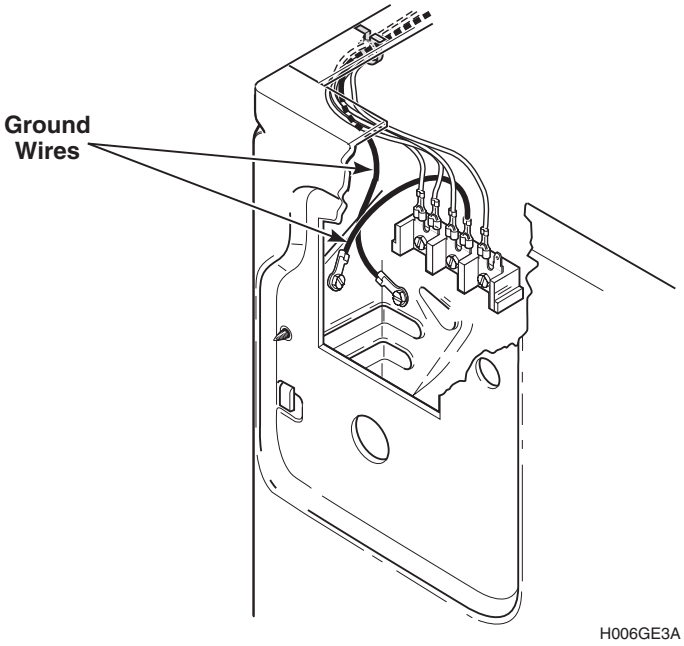

Figure 3

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

31. WASHER GROUND CONNECTIONS

Refer to *Figure 4*.

1. Ground to Control Panel Assembly
2. Ground to Control Cabinet Base
3. Ground to Electronic Control
4. Ground Power Cord to Control Cabinet
5. Grounding Hardware to Control Cabinet
6. Ground to Electric Drain Pump
7. Ground to Outer Tub
8. Ground to Outer Tub Front
9. Ground to Outer Tub to Cabinet

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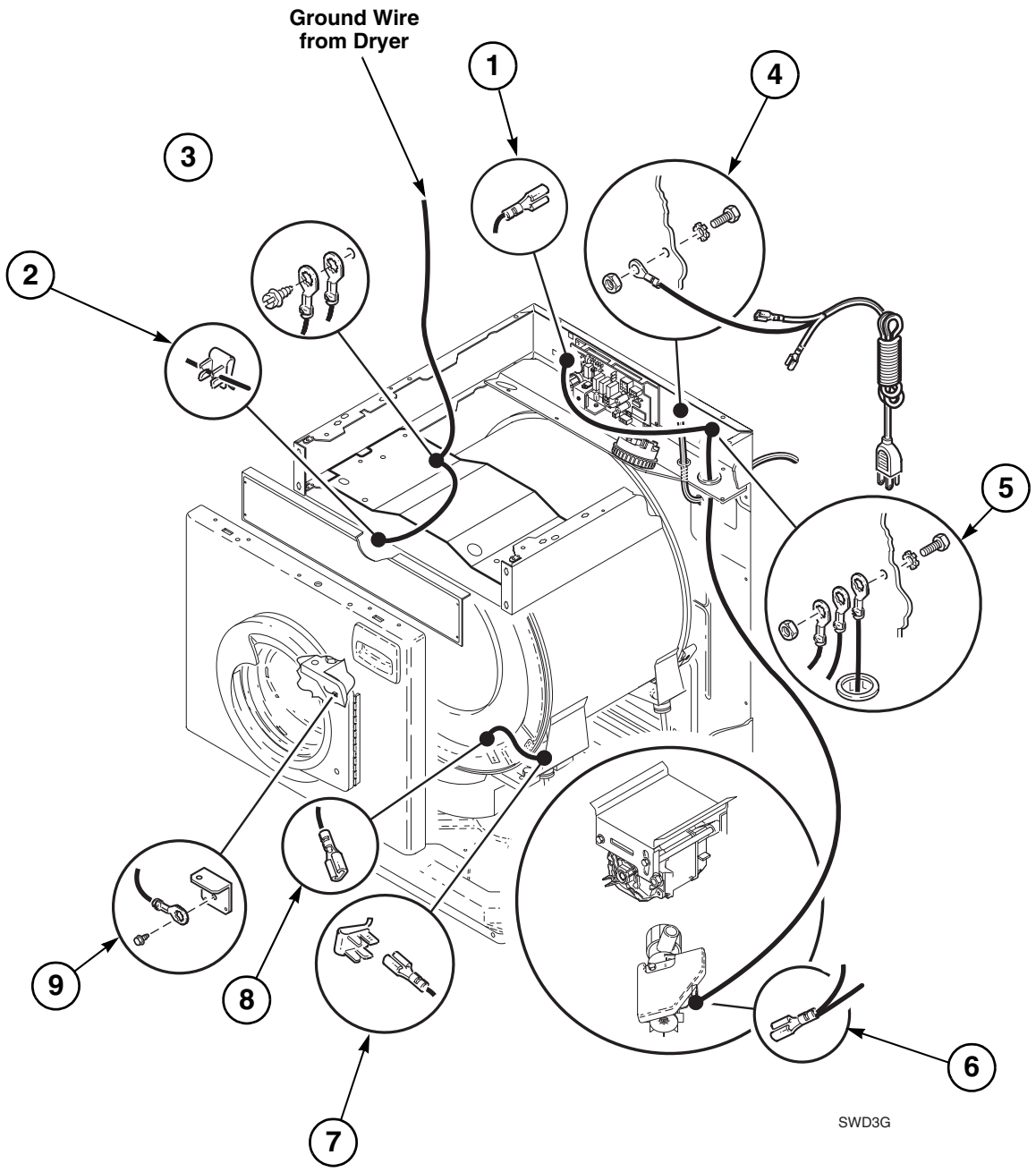

Figure 4

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

32. DRYER GROUND CONNECTIONS

Refer to *Figure 5*.

1. Terminal Block and Rear Bulkhead to Control Cabinet
2. Motor Terminal Block to Base
3. Motor to Base
4. Ground to Control Panel Assembly
5. Terminal Block and Rear Bulkhead to Control Cabinet to Control Panel

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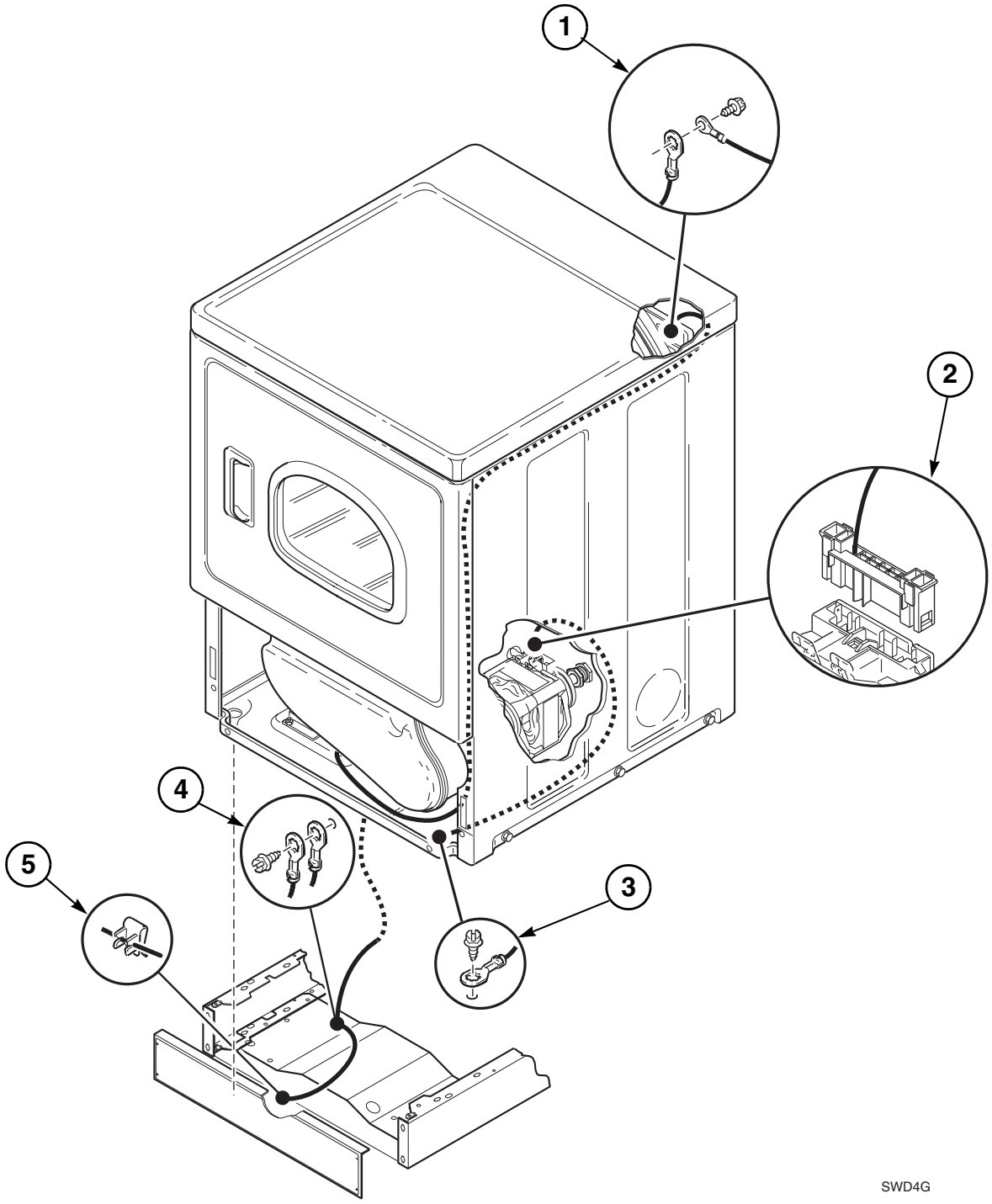

Figure 5

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Notes

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Section 5
Service Procedures

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

IMPORTANT: When reference is made to directions (right or left) in this manual, it is from operator's position facing front of machine.

33. TO REMOVE THE DRYER

Refer to *Figure 6*.

IMPORTANT: Two people are required to perform this task.

a. Remove all electrical, gas and venting connections to dryer.
b. Remove front access panel on dryer.
c. Remove two 7/16 screws attaching dryer to washer.
d. Remove control panel and disconnect molex plug.
e. Slide dryer forward, until leveling legs slide into notch on security cabinet.
f. Lift dryer and place on level surface.

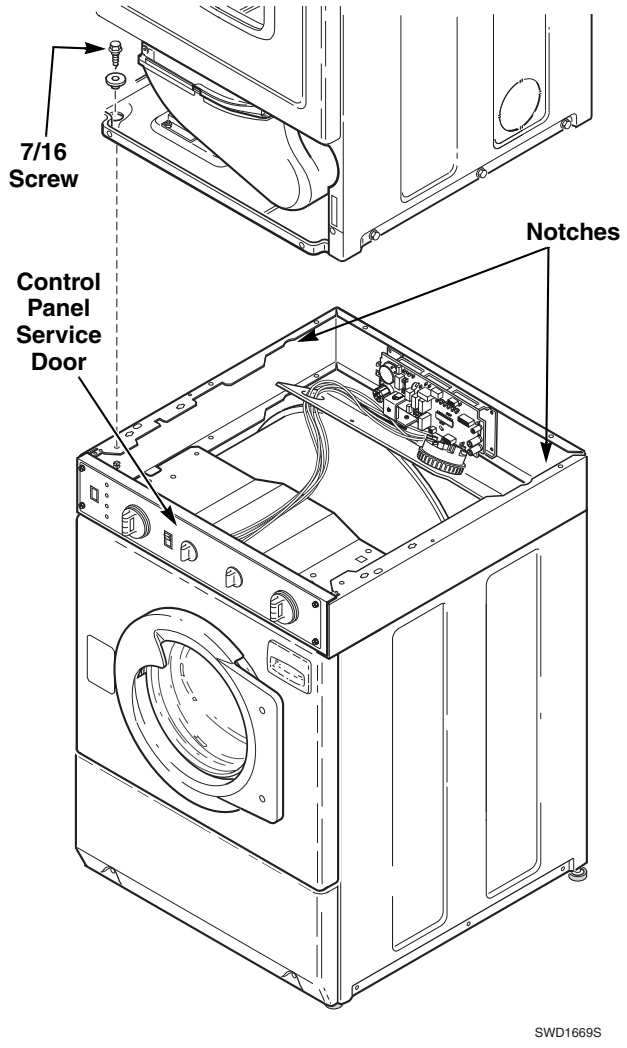

Figure 6

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

34. CONTROL PANEL AND CONTROLS

a. Remove timer knobs from washer cycle switch and dryer timer shafts. Refer to *Figure 7*.
b. Pull temperature switch knobs off washer and dryer temperature switch shafts.
c. Remove screws holding control panel to control cabinet. Refer to *Figure 7*. Remove panel as far as wires will permit.
d. Disconnect wires from push-to-start switch. Remove switch through front of control panel.
e. Disconnect two wires from each indicator light.

NOTE: Refer to wiring diagram when rewiring light.

f. Squeeze indicator light locking tabs together and pull light out rear of control panel.
g. Disconnect wires from washer cycle switch terminals. Remove switch from control panel.

NOTE: DO NOT pull on wires. Instead, unplug by pulling on disconnect blocks. Use a pliers if necessary.

NOTE: Refer to wiring diagram when rewiring switch.

h. Disconnect wires from rocker switch (extra rinse). Remove switch through front of control panel.
i. Disconnect wires from washer temperature switch terminals. Remove screws holding temperature switch to control panel.
j. Disconnect wires from dryer temperature switch terminals. Remove switch from control panel.

NOTE: DO NOT pull on wires. Instead, unplug by pulling on disconnect blocks. Use a pliers if necessary.

NOTE: Refer to wiring diagram when rewiring switch.

k. Remove wire harness and wires from dryer timer. Remove timer from control panel.
l. Remove control panel overlay from control panel.
m. Remove control panel from unit.

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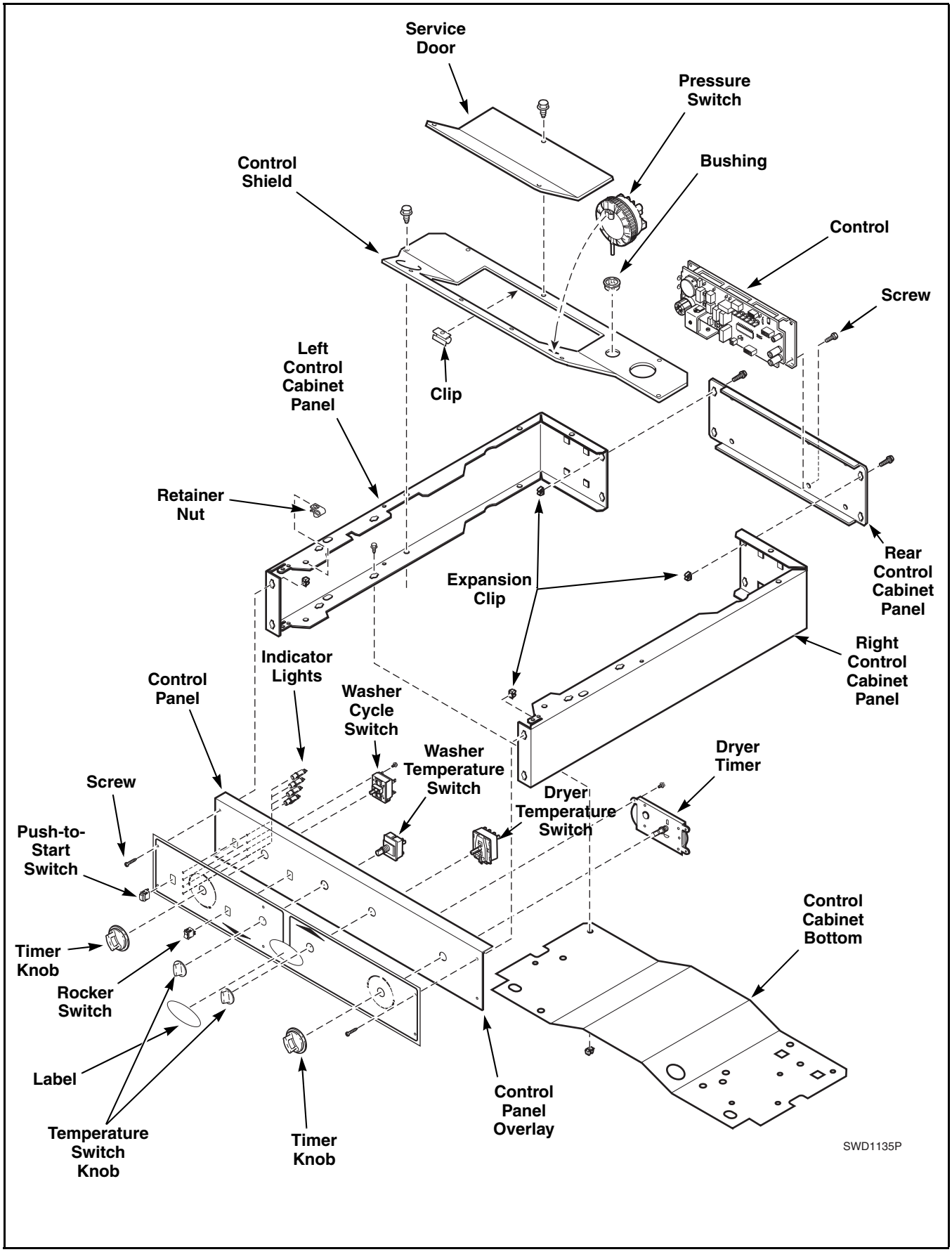

Figure 7

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

35. WASHER CONTROL

IMPORTANT: Due to the sensitivity of the electronic control, careful handling is required. As a precautionary measure, we recommend using a ground wrist strap when handling the electronic control. Wrist strap, cord and alligator clip are designed to carry away any electrostatic charge from your body and to direct charge to an available ground. By using this static protection device, potential electrostatic discharge problems associated with handling of electronic control will be minimized. Always handle electronic control by its metal edges. If a wrist strap is not available, touch machine while it is plugged in before handling control to dissipate any charge.

NOTE: New control is supplied in a special anti-static wrapping and protected by anti-static foam. While holding control by its metal edges, remove control from foam and wrapping.

a. Go to rear of unit and remove screws holding rear panel to side panels of control cabinet.
b. While supporting rear panel, press in on locking tabs and unplug harness disconnect blocks from backside of electronic control.

NOTE: DO NOT pull on wires. Instead, hold board near appropriate disconnect block and unplug by pulling on disconnect block.

c. Remove four screws holding electronic control assembly to rear panel. Refer to *Figure 7*.
d. Place the old control in the anti-static wrapping that the new control was supplied in.
e. While holding new control by its metal edges, place control on rear panel and fasten control down with four screws removed in Step “c”. Refer to *Figure 7*.

NOTE: For proper control alignment, tighten the top two screws first then tighten the bottom screws. Refer to *Figure 7*.

f. Follow wiring diagram and reconnect wires to new control.

IMPORTANT: It is important to take care when handling the original control. It must be carefully placed in the anti-static wrapping and anti-static foam which was removed from new control. If control is not wrapped properly, warranty credit will not be issued.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

36. PRESSURE SWITCH

a. Go to rear of washer and remove screws holding rear panel to side panels of control cabinet. Refer to *Figure 7*.
b. Locate pressure switch on control shield and disconnect wires from switch at disconnect block.
c. Disconnect pressure hose from pressure switch.

IMPORTANT: When installing pressure switch, blow air into hose before connecting hose to switch to remove any moisture that may have accumulated in hose.

d. Squeeze locking tabs in on pressure switch and push switch out toward rear of control shield. Refer to *Figure 7*.

37. CONTROL CABINET

a. Remove dryer. Refer to *Paragraph 33*.
b. Remove screws holding control panel to control cabinet. Refer to *Figure 7*. Remove panel.
c. Remove screws holding control cabinet bottom to control cabinet. Refer to *Figure 7*.
d. Remove screws holding control shield (with controls attached) to bottom rear flange of control cabinet. Refer to *Figure 7*.
e. Remove screws holding control to rear of control cabinet. Refer to *Figure 7*.
f. Remove screws holding control cabinet to top flange of side panels. Refer to *Figure 7*.
g. Carefully lift control cabinet assembly off washer.
h. Remove screws holding left, right and rear control cabinets together. Refer to *Figure 7*.

38. WASHER LOWER ACCESS PANEL

a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 8*.
b. Gently lower the access panel to disengage panel locators from bottom edge of front panel.

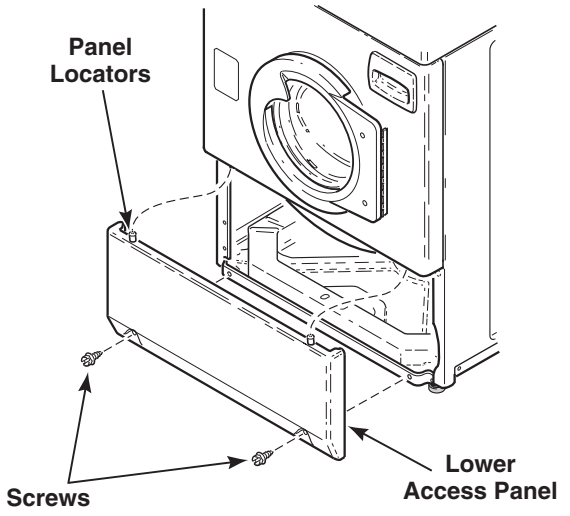

Figure 8

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

39. INVERTER CONTROL

IMPORTANT: Due to the sensitivity of the inverter control, careful handling is required. As a precautionary measure, we recommend using a ground wrist strap when handling the inverter control. Wrist strap, cord and alligator clip are designed to carry away any electrostatic charge from your body and to direct charge to an available ground. By using this static protection device, potential electrostatic discharge problems associated with handling of inverter control will be minimized. Always handle inverter control by its metal edges. If a wrist strap is not available, touch machine while it is plugged in before handling control to dissipate any charge.

NOTE: New control is supplied in a special anti-static wrapping and protected by anti-static foam. While holding control by its metal edges, remove control from foam and wrapping.

a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 8*.
b. Gently lower the access panel to disengage panel locators from bottom edge of front panel.
c. Remove screws holding left cabinet brace to washer and remove brace. Refer to *Figure 9*.
d. Remove screws holding plastic shield to control.
e. Remove shield.
f. Press in on locking tabs and unplug harness disconnect blocks and all wires from inverter control.

NOTE: DO NOT pull on wires, instead, hold board near appropriate disconnect block and unplug by pulling on disconnect block.

g. Remove screws holding inverter control to base of washer. Refer to *Figure 9*.
h. Place old control in the anti-static wrapping that new control was supplied in.

IMPORTANT: It is important to take care when handling the original inverter control. It must be carefully placed in the anti-static wrapping and anti-static foam which was removed from new inverter control. If inverter control is not wrapped properly, warranty credit will not be issued.

i. Position the new inverter control on base of washer as shown in *Figure 9*. Reinstall screws (removed in Step "f") and tighten firmly.
j. Follow the wiring diagram and reconnect wires and harness disconnect blocks to new inverter control.
k. Secure wires to base and motor using new wire ties. Refer to *Figure 9*.
l. Reinstall plastic shield over new control.

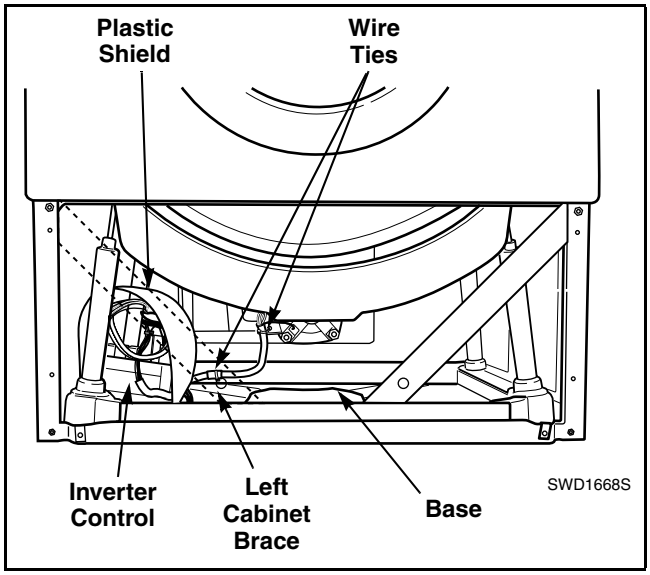

Figure 9

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

40. ELECTRIC DRAIN PUMP

a. While supporting the lower access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 8*.

IMPORTANT: There will always be some water that will remain in the pump and hoses. Therefore, before removing hoses from pump, hoses must be drained to prevent water spillage.

b. Loosen hose clamps and remove two hoses connected to electric drain pump (outer tub-to-pump hose and drain hose). Refer to *Figure 10*.

c. Disconnect wires from drain pump.

NOTE: Refer to wiring diagram when rewiring drain pump.

d. Remove three mounting screws holding pump to base and remove pump out through front of washer. Refer to *Figure 10*.

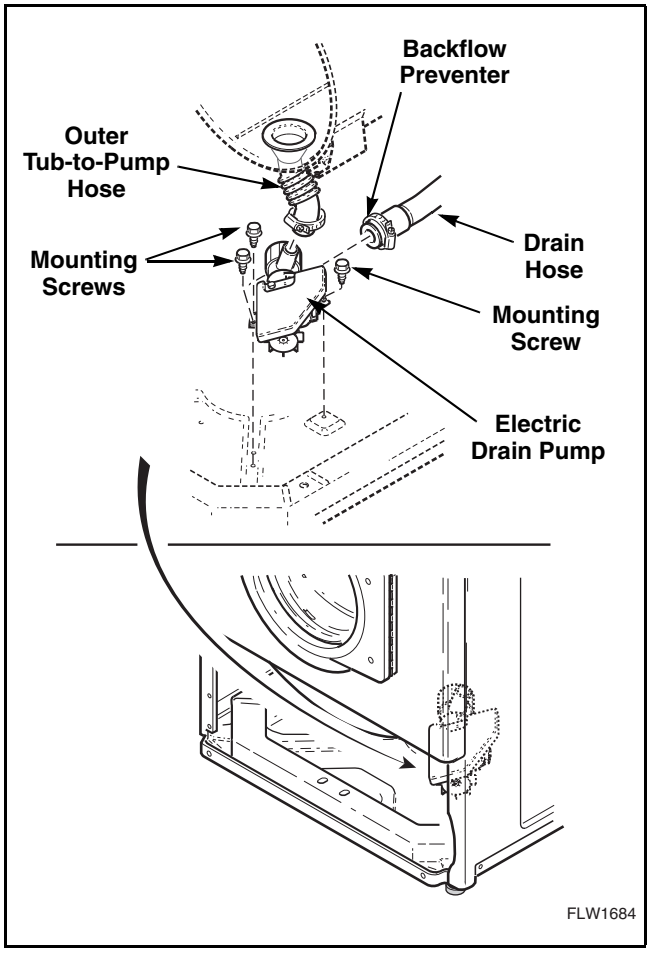

Figure 10

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

41. WASHER BELT

a. Go to rear of machine and remove two screws holding rear panel to side panels of control cabinet. Refer to *Figure 7*.

b. Reach in through opening and remove screw holding service door to control shield and remove service door. Refer to *Figure 11*.

c. Remove screws holding lower rear access panel to rear panel and remove access panel. Refer to *Figure 11*.

d. Run belt off pulley while slowly turning pulley. Refer to *Figure 11*.

e. Remove belt from motor shaft.

NOTE: When installing belt, adjust belt tension per Refer to *Paragraph 82*.

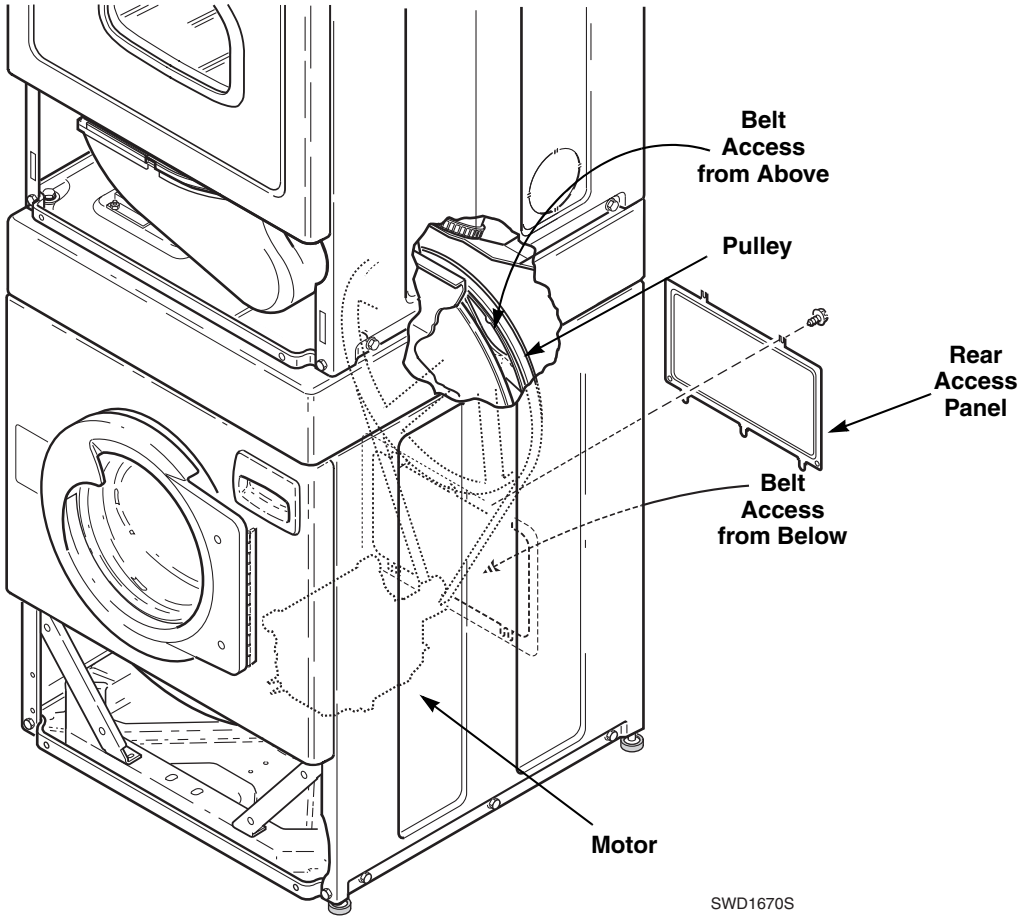

Figure 11

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

42. MIXING VALVE

NOTE: Mixing valve is located on upper back right corner of rear panel. Refer to *Figure 12*.

a. Shut off external hot and cold water supply and remove two inlet hoses.
b. Go to rear of washer and remove screw holding mixing valve and plate to rear panel, then remove valve and plate out through opening in rear panel. Refer to *Figure 12*.
c. Remove screws holding valve to mixing valve plate. Refer to *Figure 12*.
d. Loosen hose clamp and remove mixing valve-to-dispenser hose at the mixing valve. Refer to *Figure 12*.
e. Remove wire harness disconnect blocks from mixing valve solenoid terminals. Refer to *Figure 12*.

NOTE: Refer to wiring diagram when rewiring solenoids.

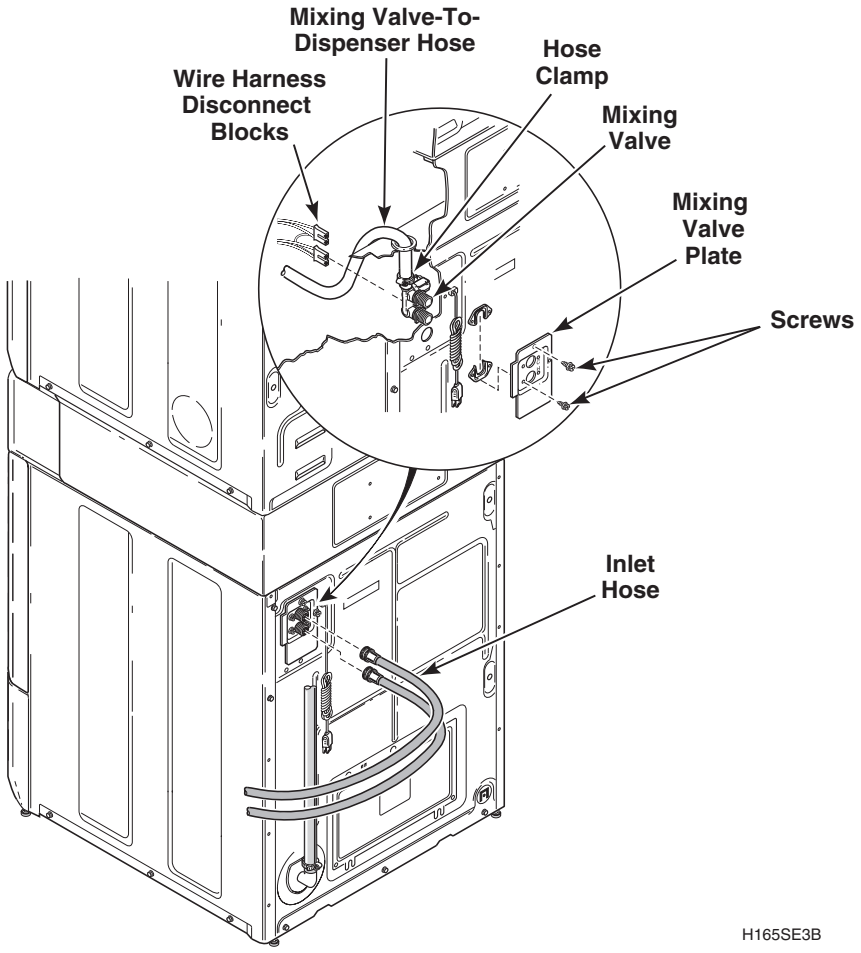

Figure 12

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WARNING

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- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

43. WASHER FRONT PANEL

a. Open loading door. Carefully remove wire clamp ring from groove with small flat screwdriver. Spring is in 6 o'clock position. Refer to *Figure 16*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

b. Grasp loading door seal lip. Refer to *Figure 14, Step 1*.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

c. Using a circular motion, pull seal up (*Figure 14*, *Step 1*), out (*Figure 14*, *Step 2*), and down (*Figure 14*, *Step 3*).

d. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 14*, *Step 4*.

NOTE: The ease of installation of the loading door seal can be improved using water or soapy solution to work seal around circumference of loading door. Be sure to orientate seal with the tab in the 12 o'clock position when installing the wire clamp ring to front panel. Be careful not to overstretch tension spring.

e. While supporting lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 8*.

f. Gently lower access panel to disengage panel locators from bottom edge of front panel.

g. Using the special tool, No. 318P4, remove the dispenser drawer. Refer to *Figure 13*.

h. Remove screws holding control panel to control cabinet.

i. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 7*.

j. Working through control panel opening, remove two screws holding bottom flange of control cabinet sides to top flange of front panel. Refer to *Figure 15*.

k. Remove bottom two front corner screws. Refer to *Figure 15*.

l. Remove front panel (with loading door attached) away from washer as far as wires permit.

m. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 15*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

NOTE: Door seal hose and wire harness must be reinstalled in the appropriate clips and holes along top flange of front panel. Refer to *Figure 18*.

IMPORTANT: Before reinstalling door and front panel assembly, make sure the door catch lines up with the door latch switch. If adjustment is required, refer to *Paragraph 83*.

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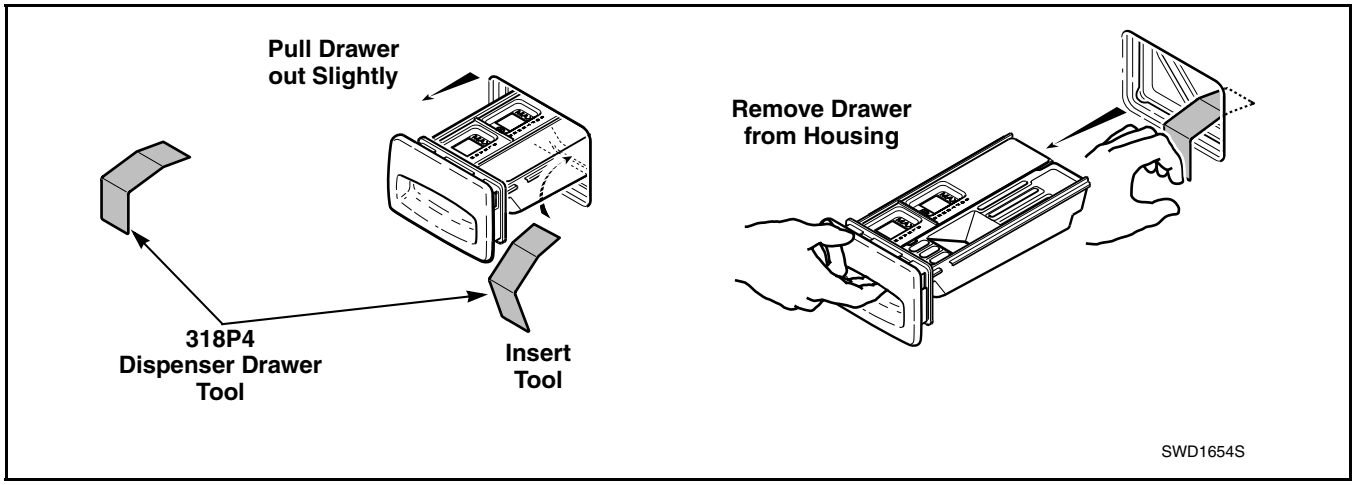

Figure 13

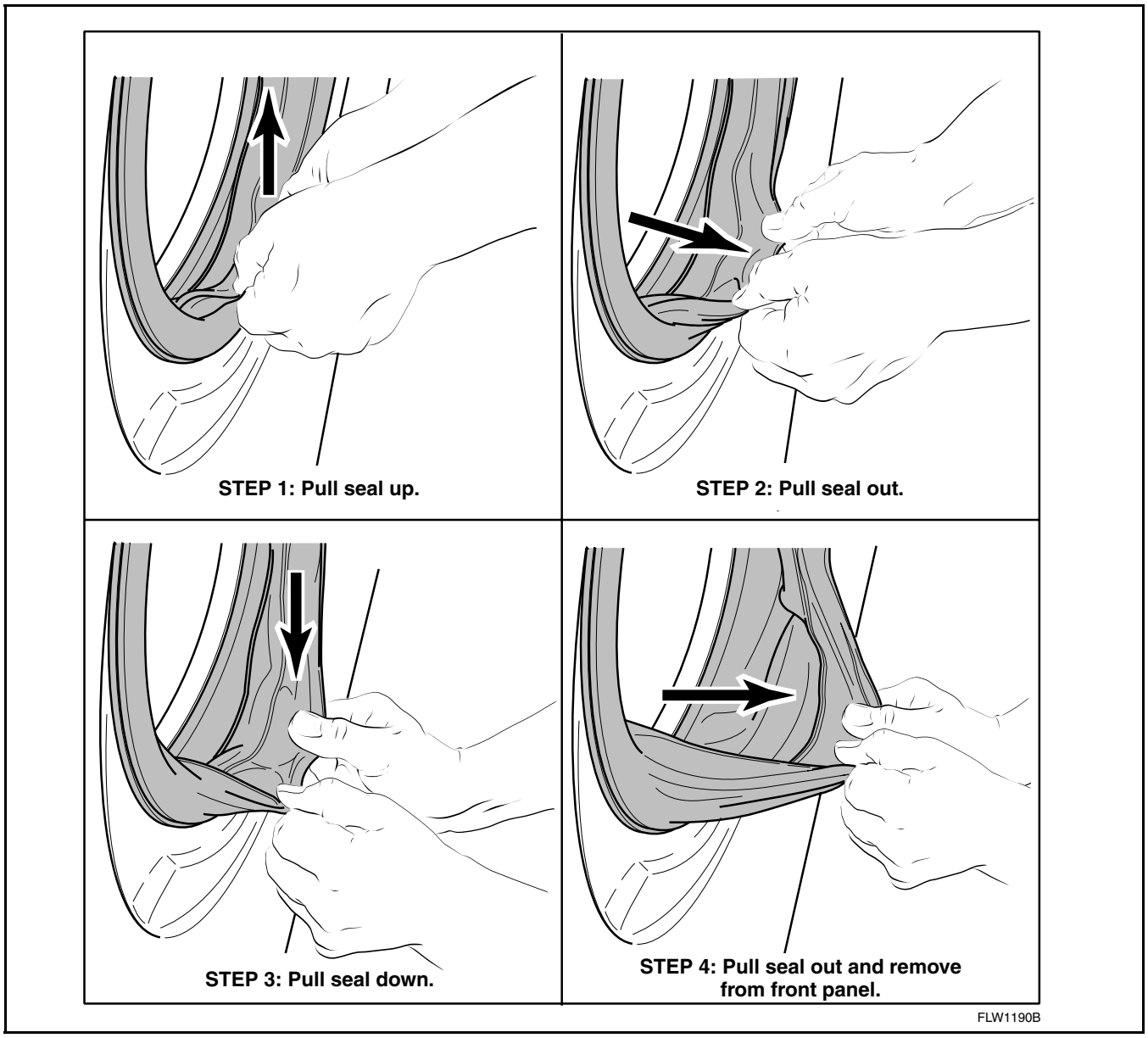

Figure 14

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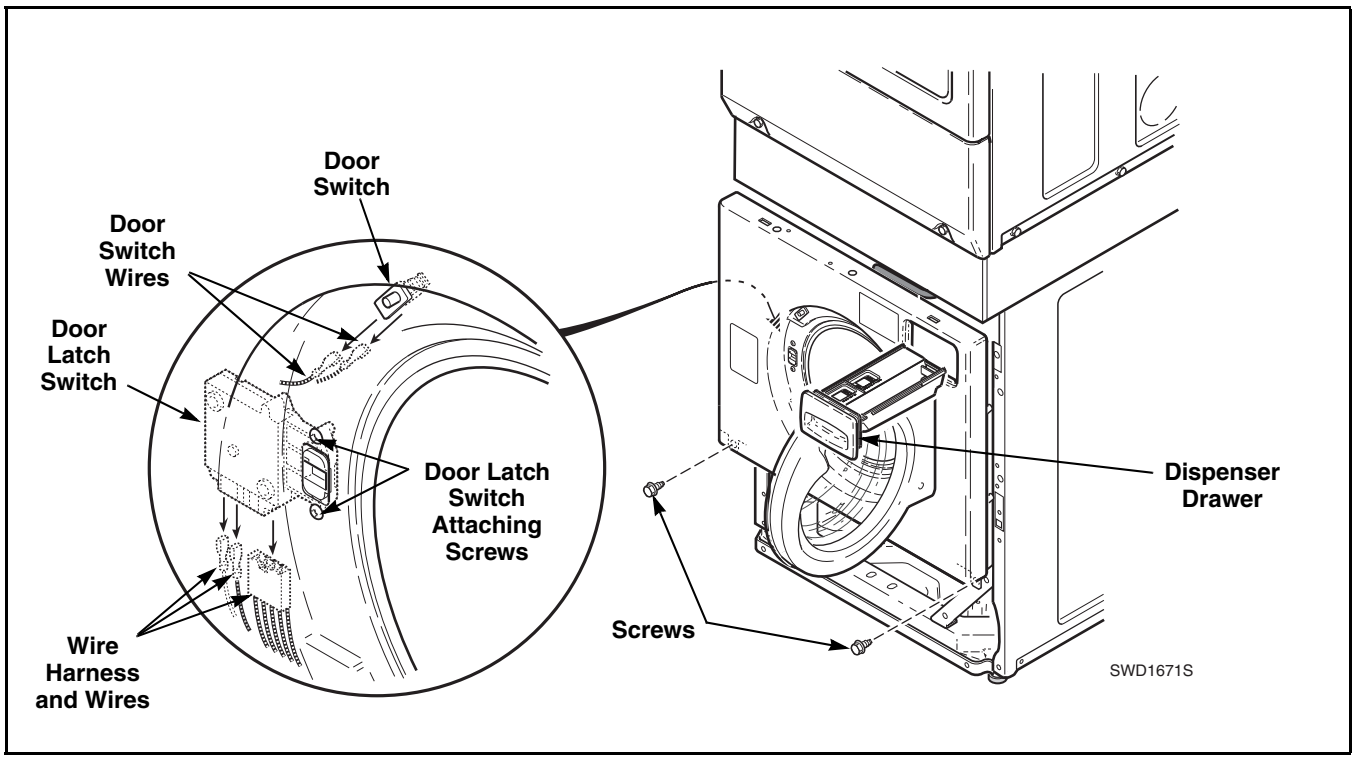

Figure 15

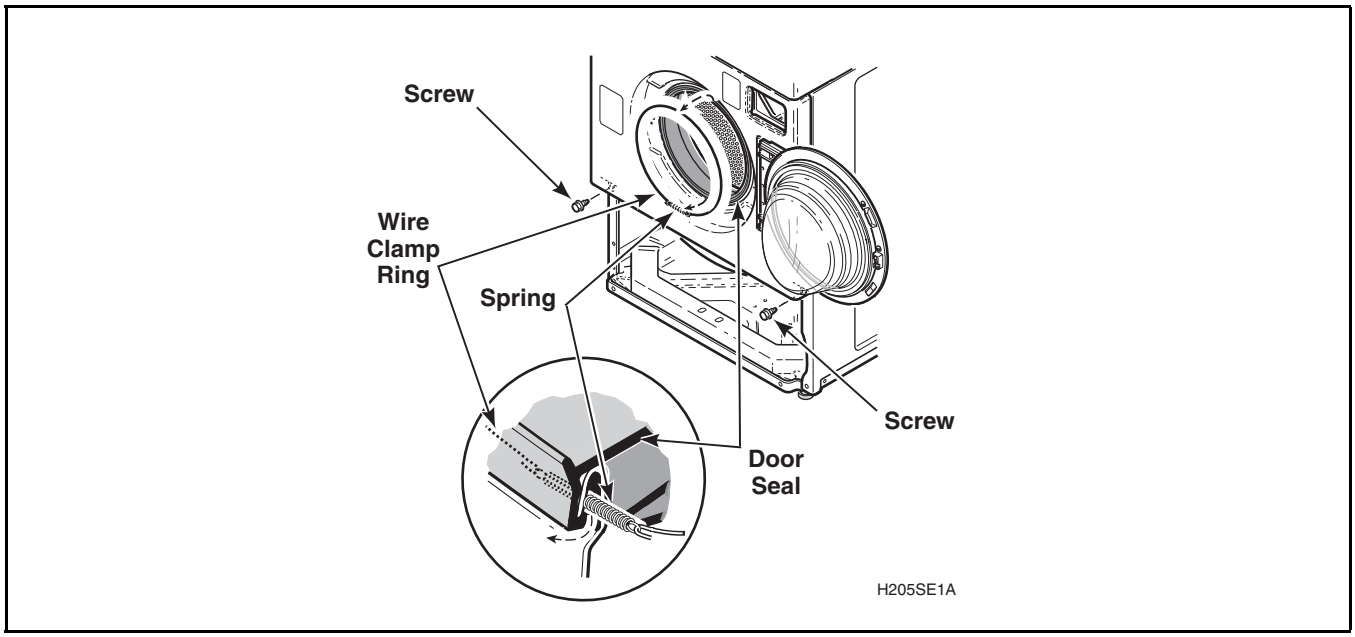

Figure 16

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

44. WASHER LOADING DOOR

a. Unlatch and open loading door.

b. Remove door bezel by prying inside lip up and forward with fingers. Refer to *Figure 17*.

c. While supporting loading door, remove screws, lockwashers and nuts holding loading door to hinge assembly and remove door. Refer to *Figure 17*.

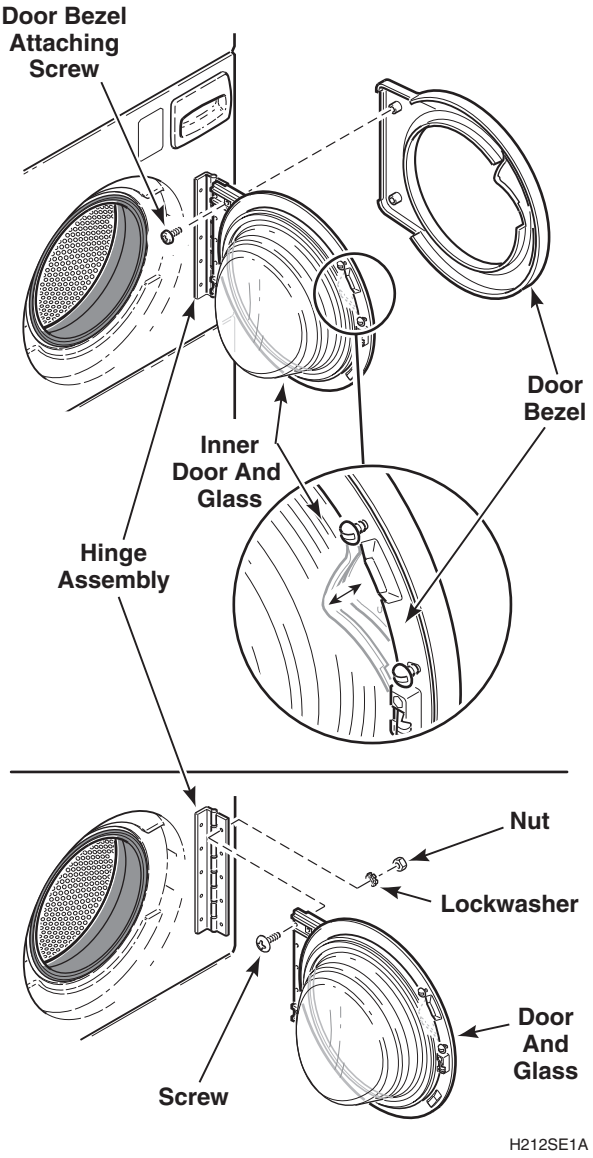

Figure 17

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

45. WASHER DOOR SEAL AND HOSE ASSEMBLY

a. Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 13*.

b. Open loading door. Carefully remove wire clamp ring from groove with small flat screwdriver. Spring is in 6 o'clock position. Refer to *Figure 16*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

c. Grasp loading door seal lip. Refer to *Figure 14, Step 1*.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

d. Using a circular motion, pull seal up (*Figure 14*, *Step 1*), out (*Figure 14*, *Step 2*), and down (*Figure 14*, *Step 3*).

e. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 14*, *Step 4*.

f. Remove screws holding control panel to control cabinet.

g. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 7*.

h. Reach in through control panel opening and remove two screws holding bottom front flange of control cabinet sides to top flange of washer front panel. Refer to *Figure 15*.

i. While supporting lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 8*.

j. Gently lower access panel to disengage panel locators from bottom edge of front panel.

k. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 15*. Remove front panel (with loading door attached) away from washer as far as wire permit.

l. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 18*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

m. Loosen hose clamp and remove door seal hose connection at the dispenser. Refer to *Figure 18*.

n. Cut hose tie strap that holds door seal to dispenser plate.

IMPORTANT: When installing door seal hose, pull hose tie tight to prevent damage. Refer to *Figure 18*.

o. Loosen large clamp holding seal to front of outer tub. Slide seal off front of outer tub and remove seal.

NOTE: The ease of installation of loading door seal can be improved using water or soap solution to work seal around the circumference of loading door. Be sure to orientate seal with tab in the 12 o'clock position when installing wire clamp ring to the front panel. Be careful not to overstretch tension spring.

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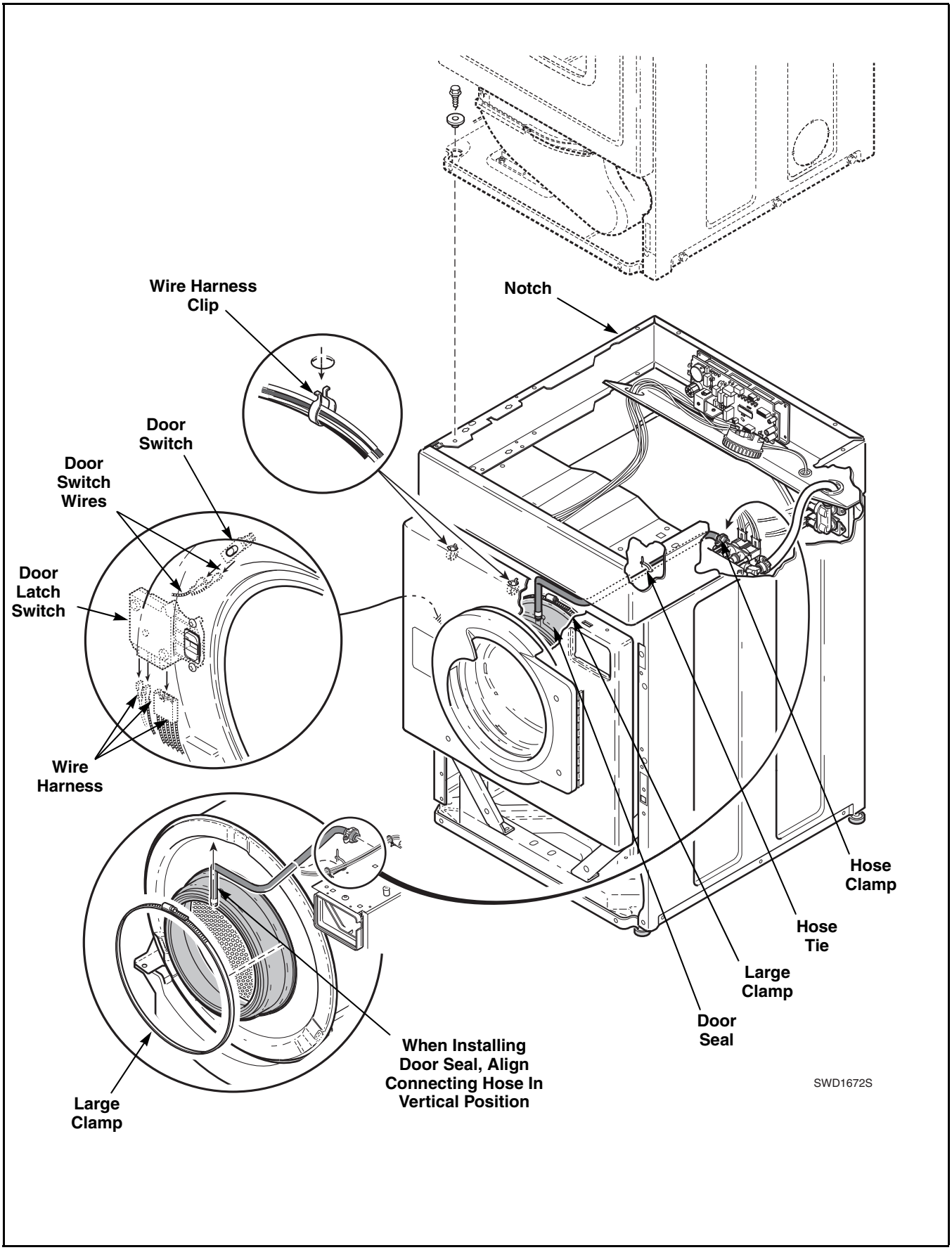

Figure 18

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

46. WASHER DOOR SWITCH

a. Open loading door.

b. Carefully remove wire clamp ring from groove with small flat screwdriver. Spring is located in the 6 o'clock position. Refer to *Figure 16*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

c. Grasp loading door seal lip. Refer to *Figure 14, Step 1*.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

d. Using a circular motion, pull seal up (*Figure 14*, *Step 1*), out (*Figure 14*, *Step 2*), and down (*Figure 14*, *Step 3*).

e. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 14*, *Step 4*.

f. Reach up between door seal and front panel. Refer to *Figure 15*. Press in on switch locking tabs and push switch out through front panel only far enough to allow removal of wires from switch terminals.

IMPORTANT: Refer to wiring diagram when rewiring switch.

47. WASHER DOOR LATCH SWITCH

a. Open loading door.

b. Carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is located in the 6 o'clock position. Refer to *Figure 16*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

c. Grasp loading door seal lip. Refer to *Figure 14, Step 1*.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

d. Using a circular motion, pull seal up (*Figure 14*, *Step 1*), out (*Figure 14*, *Step 2*), and down (*Figure 14*, *Step 3*).

e. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 14*, *Step 4*.

f. While supporting door lock from behind (through door opening), remove two Phillips head screws holding door latch switch to front panel. Refer to *Figure 15*.

g. Gently pull door lock out through door opening. Remove door lock only far enough to disconnect harness connector from door lock. Refer to *Figure 15*.

NOTE: When installing new door lock, be sure to install small lip through mounting hole first and then rotate lock into position.

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WARNING

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- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

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48. WASHER MOTOR

NOTE: Motor is removed out through front of washer, however, as an option, motor can be removed out through lower rear access panel opening on rear panel.

Motor Removal –

a. While supporting lower front access panel, remove two screws from bottom edge of panel. Refer to *Figure 8*.
b. Gently lower front access panel to disengage panel locators from bottom edge of front panel. Refer to *Figure 8*.
c. Run belt off pulley while slowly turning pulley.
d. Remove belt from motor shaft.
e. Cut the wire tie holding small harness connector to motor, then disconnect both motor harness connectors from motor. Refer to *Figure 19*.
f. Using a magic marker, outline the washer on the front and rear adjusting bolt holding motor to bracket so the belt can be tightened to the same location. Refer to *Figure 19*.
g. While supporting the motor, grasp the metal rod with a locking pliers and remove four bolts and washers holding motor to motor bracket, refer to *Figure 19*, and remove motor out through front of washer.

NOTE: Remove the back bolts and washers first, then remove the front bolts and washers.

Motor Installation –

a. Place new motor into washer and allow motor to rest on washer base.
b. Reconnect harness connector to new motor. Refer to *Figure 19*.
c. Install new wire tie holding small harness connector to motor frame. This is necessary to prevent future service calls. Refer to *Figure 19*.
d. Lift motor into position within the motor bracket and install the front pivot bolt and washer. Refer to *Figure 19*. Then install the rear pivot bolt and washer. Leave bolt snug, do not tighten.
e. Pivot motor up into motor bracket and install the front adjusting bolt and washer. Refer to *Figure 19*. Then install rear adjusting bolt and washer. Leave bolts snug.

NOTE: Locate the magic marker spot made earlier on the motor bracket. Pivot motor so front adjusting bolts and washers are in these spots and tighten both front and rear adjusting bolts. Then tighten both pivot bolts.

f. Place belt on motor pulley, then carefully run belt on pulley while slowly turning pulley.
g. Open loading door, reach into inner basket and rotate inner basket several times by hand. Recheck belt alignment.
h. Check belt tension. Refer to *Paragraph 82*.
i. Reinstall lower front access panel. Refer to *Figure 8*.

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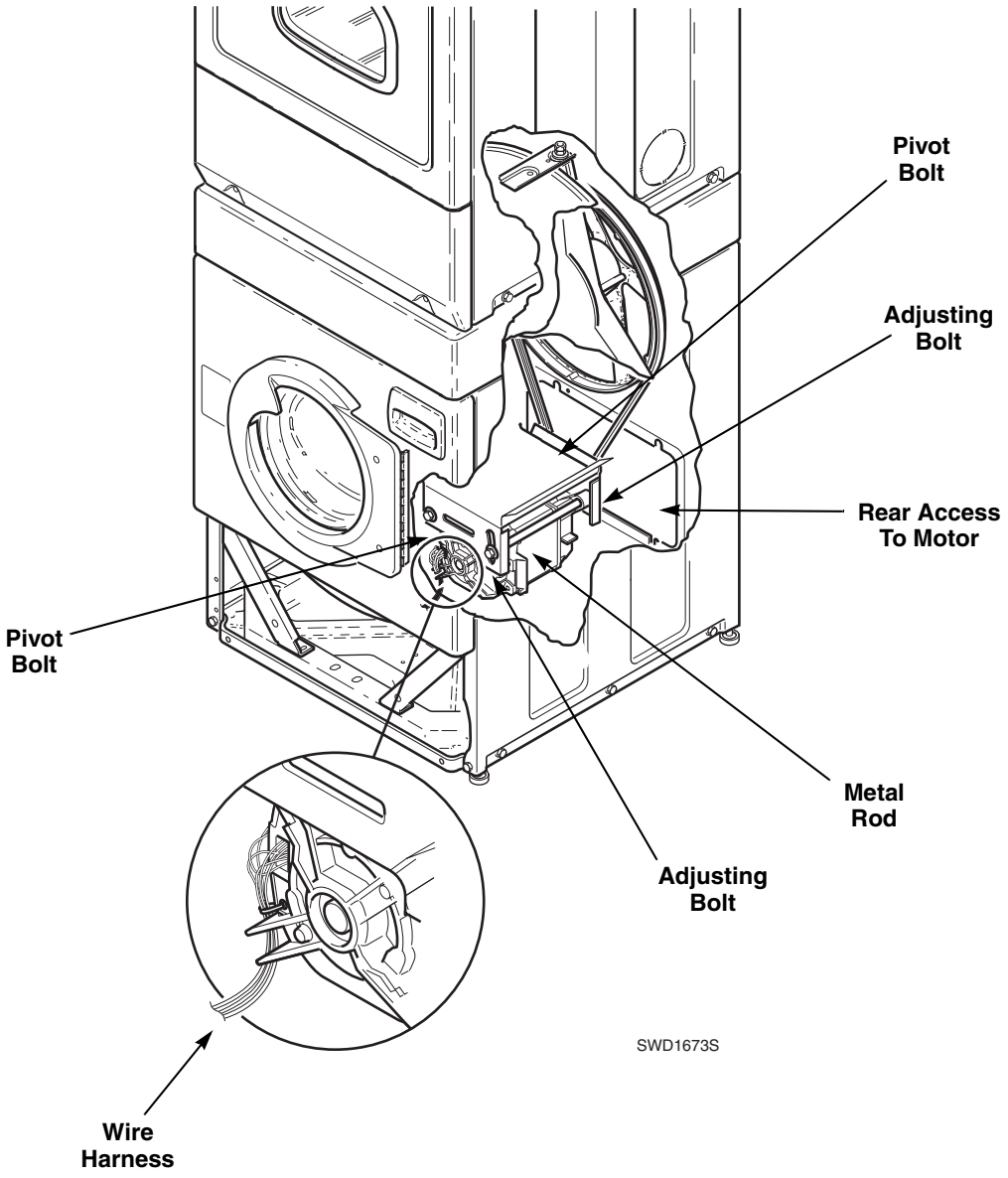

Figure 19

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WARNING

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- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

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49. OUTER TUB FRONT PANEL

a. Remove screws holding control panel to control cabinet.
b. Remove control panel away from control cabinet. Refer to *Figure 7*.
c. Working through control panel opening, remove two screws holding bottom flange of control cabinet sides to top flange of front panel. Refer to *Figure 15*.
d. While supporting lower front access panel, remove two screws from bottom edge of panel. Refer to *Figure 8*.
e. Gently lower access panel to disengage panel locators from bottom edge of front panel. Refer to *Figure 8*.
f. Remove dispenser drawer using the special tool, No. 318P4. Refer to *Figure 13*.
g. Open loading door and carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is located at 6 o'clock position. Refer to *Figure 16*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

h. Grasp loading door seal lip. Refer to *Figure 14, Step 1*.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

i. Using a circular motion, pull seal up (*Figure 14*, *Step 1*), out (*Figure 14*, *Step 2*), and down (*Figure 14*, *Step 3*).
j. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 14*, *Step 4*.

NOTE: Door seal installation can be improved using water or soap solution to work seal around circumference of loading door opening. Be sure to orientate seal with the tab in the 12 o'clock position. When installing wire clamp ring to front panel, be careful not to overstretch tension spring.

k. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 15*.
l. Remove front panel (with loading door attached) away from washer as far as wires permit.
m. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 15*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

NOTE: The large wire clip holds both the wire harnesses and the door seal hose.

n. Loosen hose clamp and remove dispenser valve-to-door seal hose connection at the dispenser. Refer to *Figure 18*.

IMPORTANT: When installing door seal hose, pull hose tie tight to prevent damage. Refer to *Figure 18*.

o. Loosen large clamp holding door seal to front of outer tub. Carefully pull seal off front lip of outer tub front panel and remove door seal and hose. Refer to *Figure 18*.
p. Disconnect ground wire from outer tub front panel. Refer to *Figure 20*.
q. Remove nut, washers and screw holding clamp ring to outer tub front panel. Refer to *Figure 20*.
r. Remove rubber seal from outer tub front panel and discard seal.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

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IMPORTANT: Always replace seal with a new seal. Spray or apply a mixture of diluted laundry detergent to assist in installation of new seal. The "puffy" side of seal should be installed to the inside. For best results, tap clamp ring all around while tightening screw and nut.

NOTE: Install metal clamp ring by placing clamp ring opening at approximately the 10 o'clock position to ensure that no interference is encountered with side panel or the under side of the control cabinet. Tighten the clamp ring screw and nut until a spacing of one inch is achieved at the clamp ring opening or until tight.

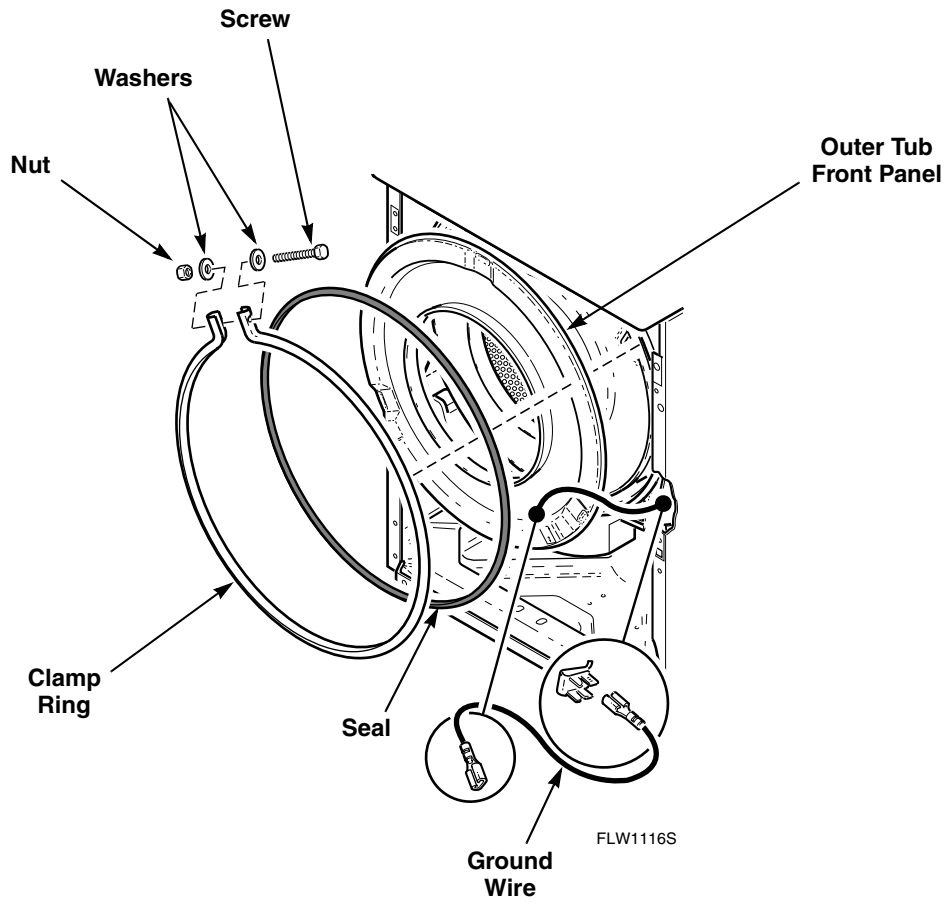

Figure 20

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- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

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50. WASHER INNER BASKET PULLEY

a. While supporting lower front access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 8*.
b. Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 13*.
c. Remove screws holding control panel to control cabinet.
d. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 7*.
e. Working through the control panel opening, remove two screws holding bottom flange of control cabinet sides to top flange of front panel. Refer to *Figure 15*.
f. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 15*. Remove front panel (with loading door attached) away from washer as far as wires permit.
g. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 15*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

NOTE: The large wire clip holds both the wire harnesses and the door seal hose. Refer to *Figure 15*.

h. Go to rear of machine and remove two screws holding lower rear access panel to rear panel and remove access panel. Refer to *Figure 11*.
i. Run belt off pulley while slowly turning pulley. Refer to *Figure 11*.
j. Remove belt from motor shaft.
k. Remove hole plug from rear panel to access pulley cap screw. Refer to *Figure 24*.
l. Remove cap screw (left hand thread) lockwasher and flat washer holding pulley to inner basket shaft. Refer to *Figure 24*.
m. Remove pulley from shaft and set on base of machine.

IMPORTANT: When installing pulley, always use a new cap screw to prevent screw from loosening during operation. Use a 3/8 - 24 UNF left hand thread tap to clean old Loctite out of pulley screw receiving hole before installing new screw. This ensures that inner basket and pulley properly seat.

NOTE: When installing new cap screw, apply a thread locking compound to screw threads and torque new cap screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

n. Remove pulley from front of machine by sliding around outer tub.
o. After installing belt, adjust belt tension per *Paragraph 82*.

51. WASHER INNER BASKET ASSEMBLY

Inner Basket Removal –

a. While supporting lower front access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 8*.
b. Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 13*.
c. Remove screws holding control panel to control cabinet.
d. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 7*.
e. Open loading door. Carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is in 6 o'clock position. Refer to *Figure 16*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

f. Grasp loading door seal lip. Refer to *Figure 14*, *Step 1*.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

g. Using a circular motion, pull seal up (*Figure 14*, *Step 1*), out (*Figure 14*, *Step 2*), and down (*Figure 14*, *Step 3*).

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- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

h. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 14*, *Step 4*.
i. Working through the control panel opening, remove two screws holding bottom flange of control cabinet sides to top flange of front panel. Refer to *Figure 15*.
j. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 15*. Remove front panel (with loading door attached) away from washer as far as wires permit.
k. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 18*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

NOTE: The large wire clip holds both the wire harnesses and the door seal hose. Refer to *Figure 18*.

l. Loosen hose clamp and remove dispenser valve-to-door seal hose connection at the dispenser. Refer to *Figure 18*.

IMPORTANT: When installing door seal hose, pull hose tie tight to prevent damage. Refer to *Figure 18*.

m. Loosen large clamp holding door seal to front of outer tub. Carefully pull seal off front lip of outer tub front panel and remove door seal and hose. Refer to *Figure 18*.

NOTE: Door seal installation can be improved using water or soap solution to work seal around circumference of loading door opening. Be sure to install seal with the tab in the 12 o'clock position.

n. Disconnect ground wire from outer tub front panel. Refer to *Figure 20*.
o. Remove nut, washers and screw holding clamp ring to outer tub front panel. Refer to *Figure 20*.
p. Remove rubber seal from outer tub front panel and discard seal.

IMPORTANT: Always replace seal with a new seal. Spray or apply a mixture of diluted laundry detergent to assist in installation of new seal. The "puffy" side of seal should be installed to the inside. For best results, tap clamp ring all around while tightening screw and nut.

NOTE: Install metal clamp ring by placing clamp ring opening at approximately the 10 o'clock position to ensure that no interference is encountered with side panel or the underside of the control cabinet or cabinet top. Tighten the clamp ring screw and nut until a spacing of one inch is achieved at the clamp ring opening or until tight.

q. Run belt off pulley while slowly turning pulley. Refer to *Figure 11*.
r. Remove belt from motor shaft.
s. Remove cap screw (left hand thread), lockwasher and flat washer holding pulley to inner basket shaft. Refer to *Figure 24*.

NOTE: Cap screw can be accessed through hole in rear panel by removing hole plug. Refer to *Figure 24*.

t. Remove pulley front shaft.

IMPORTANT: When installing pulley, always use a new cap screw to prevent screw from loosening during operation. Use a 3/8 - 24 UNF left hand thread tap to clean old Loctite out of pulley screw receiving hole before installing new screw. This ensures that inner basket and pulley properly seat.

NOTE: When installing new cap screw, apply a thread locking compound to screw threads and torque new cap screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

u. After installing belt, adjust belt tension per *Paragraph 82*.
v. Carefully remove inner basket out through front of washer.

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- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

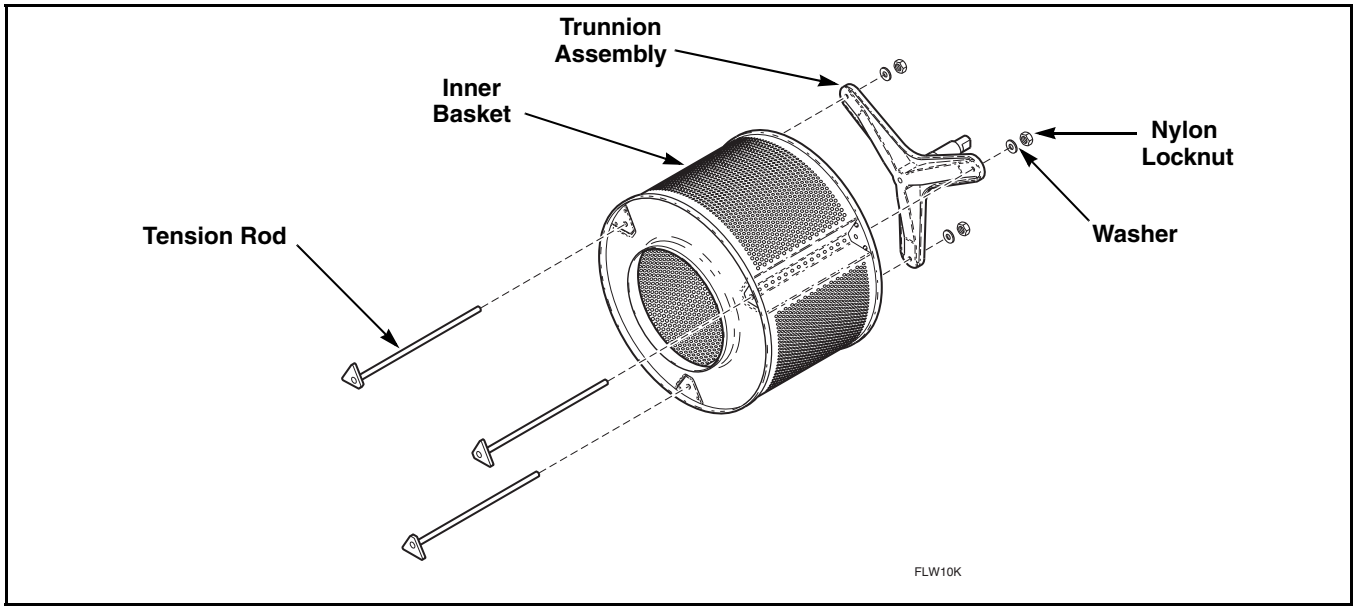

Figure 21

Installing 800749P Trunnion Kit or 800198P Inner Basket Kit –

a. Remove nuts, washers and tension rods holding trunnion to inner basket. Refer to *Figure 21*.
b. If using existing trunnion, clean out old Loctite from pulley bolt threads using a 3/8-24 UNF Left Hand Tap.
c. Dip threads of three new tension rods into lightweight oil.
d. Insert tension rods into inner basket. Refer to *Figure 21*. Position each rod so the rounded corner of triangular head faces the center of inner basket. Refer to *Figure 22*.
e. Position trunnion assembly through rods and onto inner basket.
f. Attach three washers and three new nylon locknuts onto rods. Leave the nuts loose.

IMPORTANT: Always use new nylon locknuts.

g. Carefully center trunnion on basket and torque nuts to about 50 inch-pounds.
h. Install inner basket/trunnion assembly into washer. Do not bolt down at this time.

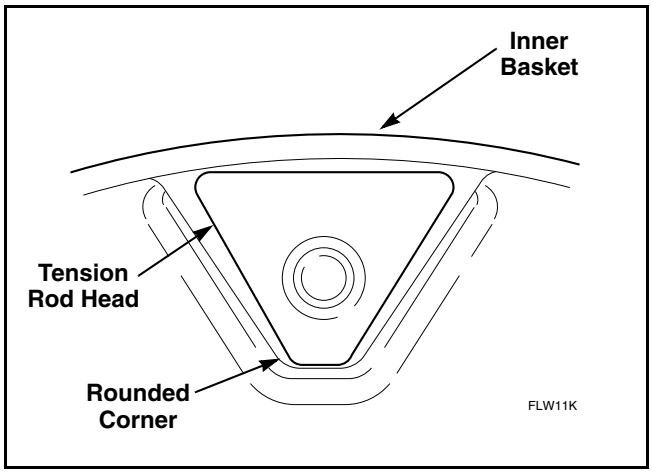

Figure 22

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- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

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i. Check for concentricity/roundness of assembly. Use a dial indicator to check that concentricity at the inside edge of inner basket lip is a maximum of .05 inch TIR (Total Indicator Runout). Refer to *Figure 23*. If concentricity is not within .05 inch, remove assembly from washer and adjust location of trunnion. Repeat until concentricity is within .05 inch.

j. Remove inner basket/trunnion assembly from washer and evenly torque three nuts to 200 ± 10 inch-pounds.

k. Recheck that concentricity is still within .05 inch.

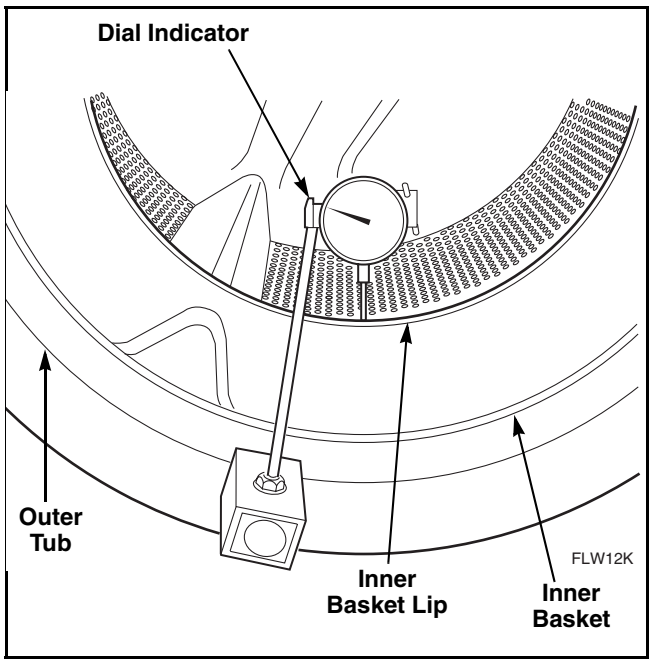

Figure 23

Inner Basket Installation –

a. Apply No. 27604P Anti-Seize Compound to the area of the trunnion shaft that will be contacting the front and rear bearings. Refer to *Figure 25*.

b. Apply a film of grease to area of shaft that will be contacting the bearing housing seal. Refer to *Figure 25*. Make sure seal lips also are packed with grease. Refer to *Figure 25*.

IMPORTANT: When installing inner basket, the following steps must be taken to ensure that the seal is properly orientated:

c. Install inner basket assembly by pushing all the way into outer tub. Refer to *Figure 26*, *Step 1*.

d. Slightly pull out inner basket about 1/4 inch to ensure that the bearing housing seal lips are not rolled over. Refer to *Figure 26*, *Step 2*.

NOTE: If inner basket is pulled out more than 3/8 inch (past step on trunnion shaft), repeat Steps "c" and "d".

e. Fully reseat inner basket. Refer to *Figure 26*, *Step 3*.

f. Install pulley and cap screw. Be careful not to push the shaft forward while tightening the screw.

IMPORTANT: When installing pulley, always use a new cap screw to prevent screw from loosening during operation. Use a thread tap to clean old Loctite out of pulley screw receiving hole before installing new screw. This ensures that inner basket and pulley properly seat.

NOTE: When installing new cap screw, apply a thread locking compound to screw threads and torque new cap screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

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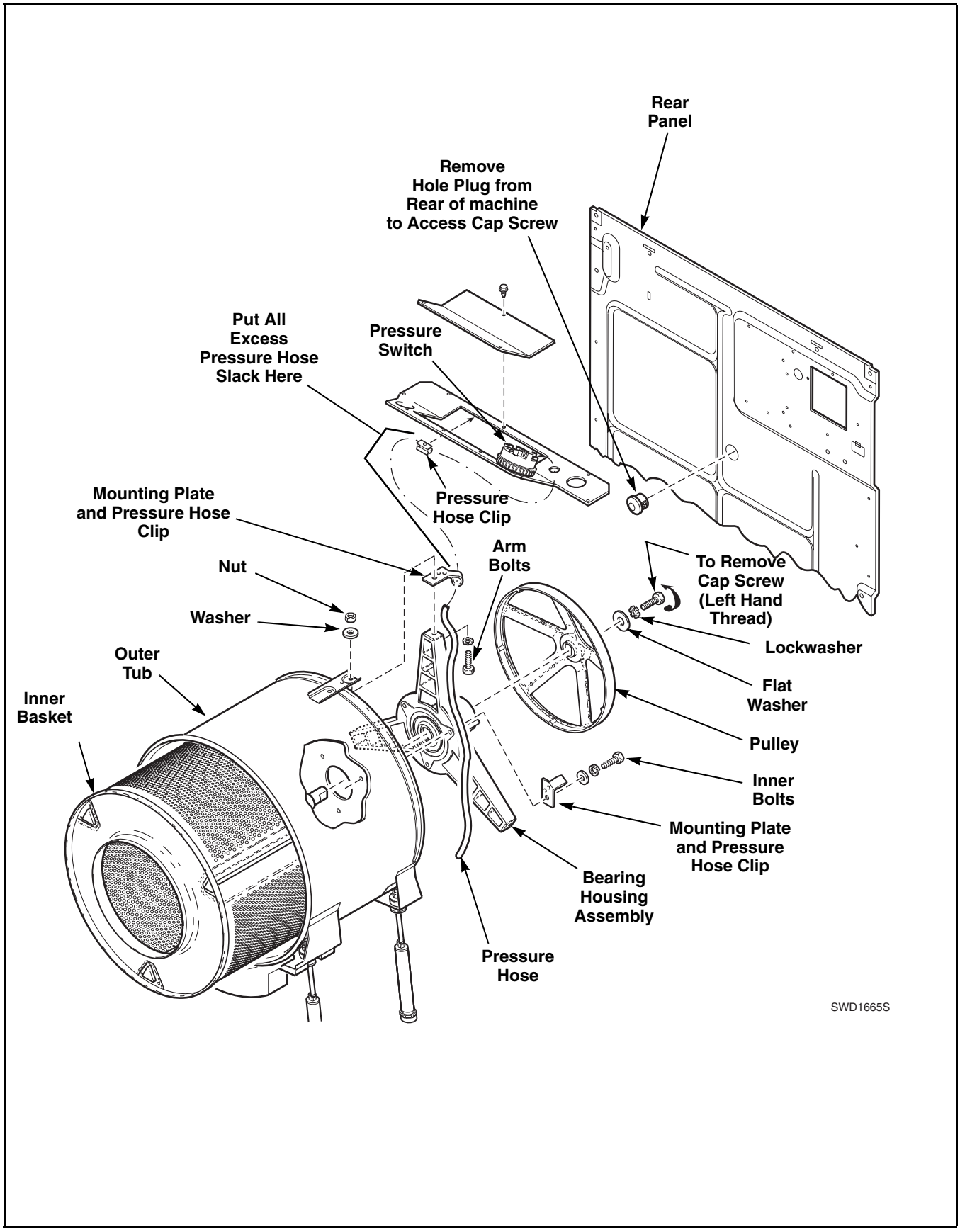

Figure 24

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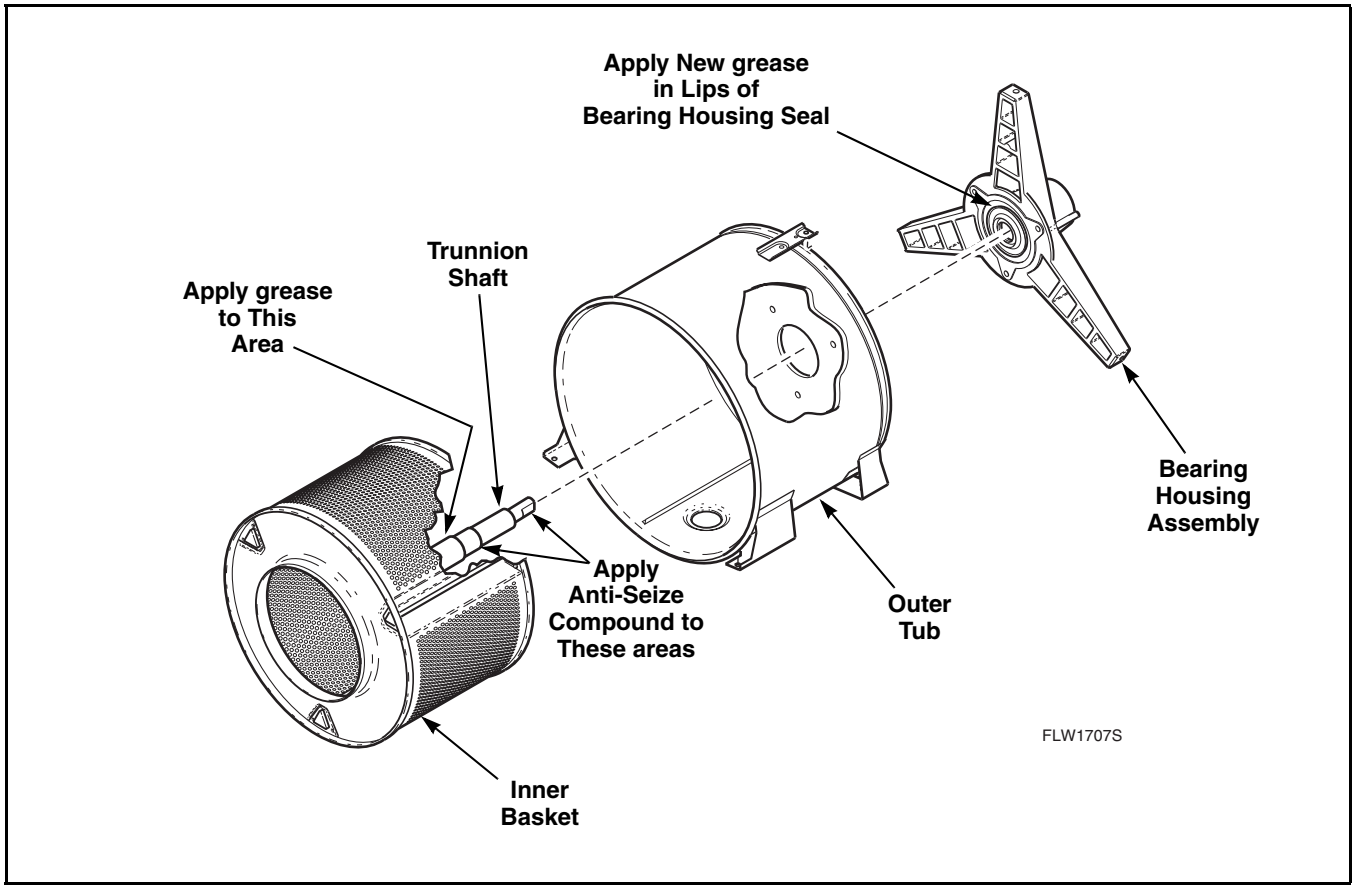

Figure 25

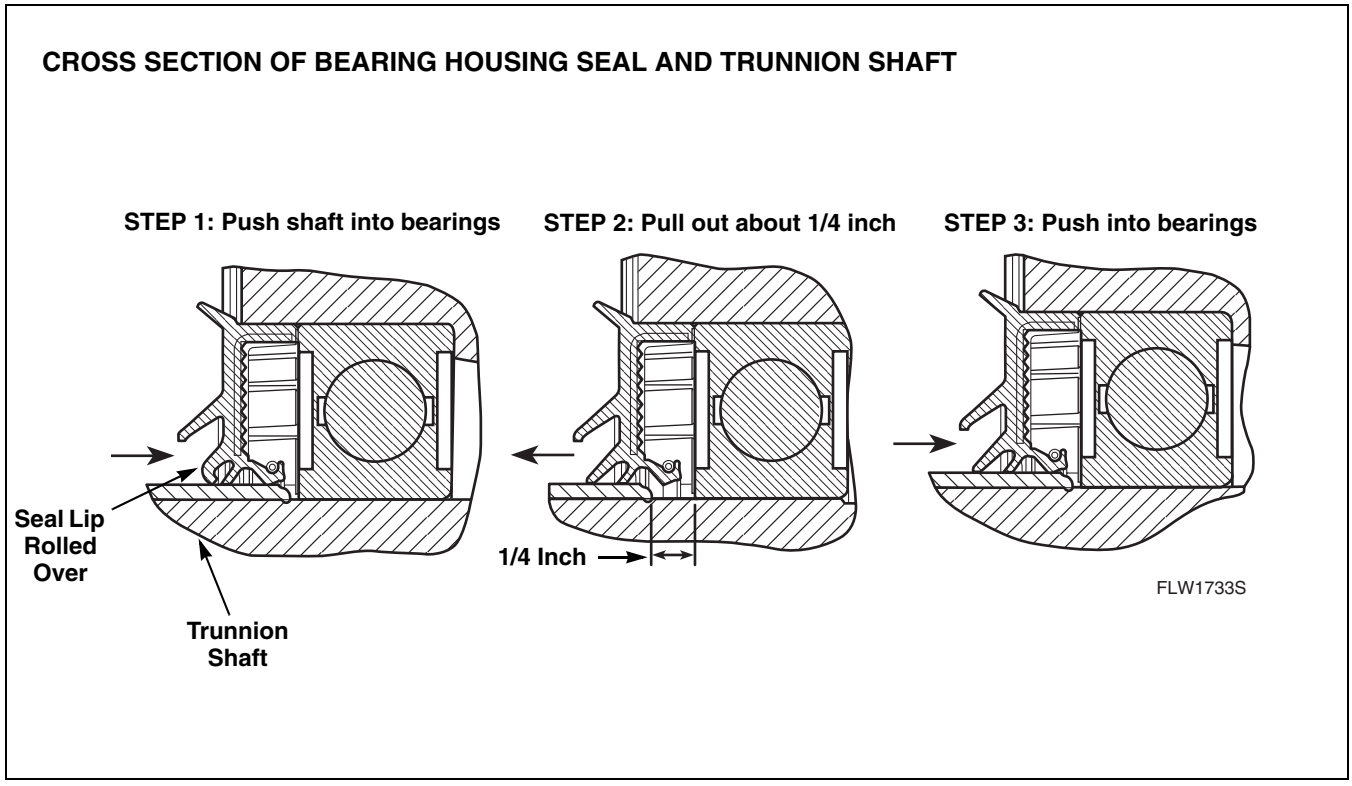

Figure 26

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- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

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52. BEARING HOUSING

Bearing Housing Removal –

a. Remove dryer. Refer to *Paragraph 33*.
b. While supporting lower front access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 8*.
c. Use special tool, No. 318P4, and remove dispenser drawer.Refer to *Figure 13*.
d. Remove screws holding control panel to control cabinet.
e. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 7*.
f. Open loading door. Carefully remove wire clamp ring from groove with a small flat blade screwdriver. Spring is in 6 o'clock position. Refer to *Figure 16*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

g. Grasp loading door seal lip. Refer to *Figure 14*, *Step 1*.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

h. Using a circular motion, pull seal up (*Figure 14*, *Step 1*), out (*Figure 14*, *Step 2*), and down (*Figure 14*, *Step 3*).
i. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 14*, *Step 4*.
j. Working through the control panel opening, remove two screws holding bottom flange of control cabinet sides to top flange of front panel. Refer to *Figure 15*.
k. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 15*. Remove front panel (with loading door attached) away from washer as far as wires permit.

NOTE: Refer to wiring diagram when rewiring door switch.

l. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 18*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel. Refer to *Figure 18*.

NOTE: The large wire clip holds both the wire harnesses and the door seal hose. Refer to *Figure 18*.

m. Loosen hose clamp and remove dispenser valve-to-door seal hose connection at the dispenser. Refer to *Figure 18*.

IMPORTANT: When installing door seal hose, pull hose tie tight to prevent damage. Refer to *Figure 18*.

n. Loosen large clamp holding door seal to front of outer tub. Carefully pull seal off front lip of outer tub front panel and remove door seal and hose. Refer to *Figure 18*.

NOTE: Door seal installation can be improved using water or soap solution to work seal around circumference of loading door opening. Be sure to install seal with the tab in the 12 o'clock position.

o. Disconnect ground wire from outer tub front panel. Refer to *Figure 20*.
p. Remove nut, washers and screw holding clamp ring to outer tub front panel. Refer to *Figure 20*.
q. Remove rubber seal from outer tub front panel and discard seal.

IMPORTANT: Always replace seal with a new seal. Spray or apply a mixture of diluted laundry detergent to assist in installation of new seal. The "puffy" side of seal should be installed to the inside. For best results, tap clamp ring all around while tightening screw and nut.

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- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

NOTE: Install clamp screw with threads and nut facing downward. Refer to *Figure 20*. Install clamp screw with threads and nut facing downward. Refer to *Figure 20*. Install metal clamp ring by placing clamp ring opening at approximately the 10 o'clock position to ensure no interference is encountered with side panel or the underside of the control cabinet or cabinet top. Tighten screw and nut until a spacing of one inch is achieved at the clamp ring opening. Tap clamp ring all around while tightening the screw and nut.

r. Run belt off pulley while slowly turning pulley. Refer to *Figure 11*.
s. Remove belt from motor shaft.
t. Remove cap screw (left hand thread), lockwasher and flat washer holding pulley to inner basket shaft. Refer to *Figure 24*.

NOTE: Cap screw can be accessed through hole in rear panel by removing hole plug. Refer to *Figure 24*.

u. Remove pulley from shaft.

IMPORTANT: When installing pulley, always use a new cap screw to prevent screw from loosening during operation. Use a 3/8 24 UNF left hand thread tap to clean old Loctite out of pulley screw receiving hole before installing new screw. This ensures that inner basket and pulley properly seat.

NOTE: When installing new cap screw, apply a thread locking compound to screw threads and torque new cap screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

v. After installing belt, adjust belt tension per *Paragraph 82*.
w. Carefully remove inner basket out through front of washer.
x. Remove three screws holding bearing housing arms to outer tub.

IMPORTANT: Prior to disassembly, note the position of the pressure hose, hose clips and mounting plate so parts can be reinstalled in the same position. Refer to *Figure 24*.

y. While supporting bearing housing, remove three inner screws holding bearing housing to rear of outer tub. Refer to *Figure 24*.

Bearing Housing Installation –

NOTE: When installing the bearing housing, be sure to route the pressure hose under the right arm and attach hose and pressure hose clip to mounting plate. Refer to *Figure 24*. Then route pressure hose up to the hose mounting plate on the top arm. Refer to *Figure 24*. Make sure there is no slack between these two points. All excess pressure hose slack must be collected between the top hose mounting plate on the bearing housing arm and the pressure hose clip. Refer to *Figure 24*.

IMPORTANT: The three arm bolts should always be tightened first and torqued to 275 inch pounds (31.46 Nm). Then tighten the three inner bolts and torque to 150 inch pounds (17.16 Nm).

NOTE: If a bearing failure should occur, a new bearing housing assembly should always be used. The bearings and seal are not serviceable parts. Make sure the new bearing housing seal is packed with lubrication in all grooves before installation. If not, lubricate seal.

a. Apply No. 27604P Anti-Seize Compound to the area of the trunnion shaft that will be contacting the front and rear bearings. Refer to *Figure 25*.
b. Apply a film of grease to area of shaft that will be contacting the bearing housing seal. Refer to *Figure 25*. Make sure seal lips also are packed with grease. Refer to *Figure 25*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

IMPORTANT: When installing inner basket, the following steps must be taken to ensure that the seal is properly orientated:

c. Install inner basket assembly by pushing all the way into outer tub. Refer to *Figure 26*, *Step 1*.

d. Slightly pull out inner basket about 1/4 inch to ensure that the bearing housing seal lips are not rolled over. Refer to *Figure 26*, *Step 2*.

NOTE: If inner basket is pulled out more than 3/8 inch (past step on trunnion shaft), repeat Steps "c" and "d".

e. Fully reseat inner basket. Refer to *Figure 26*, *Step 3*.

f. Install pulley and cap screw. Be careful not to push the shaft forward while tightening the screw.

IMPORTANT: When installing pulley, always use a new cap screw to prevent screw from loosening during operation. Use a thread tap to clean old Loctite out of pulley screw receiving hole before installing new screw. This ensures that inner basket and pulley properly seat.

NOTE: When installing new cap screw, apply a thread locking compound to screw threads and torque new cap screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

53. DRYER ACCESS PANEL

Refer to *Figure 27*.

a. While supporting access panel, remove two screws from bottom edge of panel.

b. Gently lower access panel to disengage panel locators from bottom edge of front panel.

c. Remove access panel.

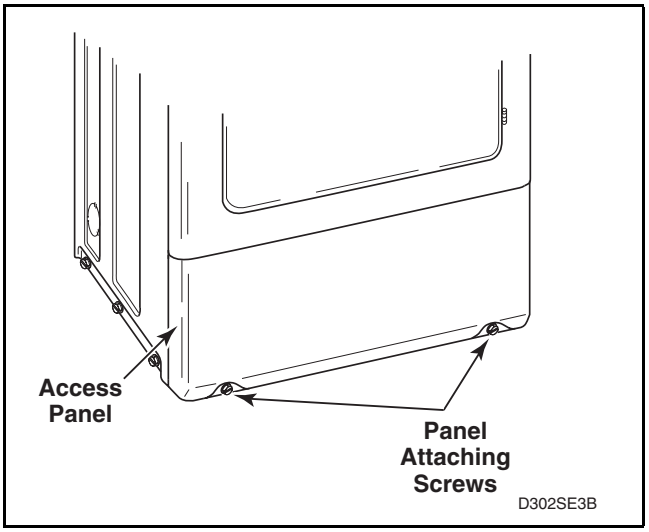

Figure 27

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

54. CABINET TOP

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.
b. Gently lower access panel to disengage panel locators from bottom edge of access panel. Refer to *Figure 27*.
c. Remove two screws holding bottom tabs on front panel to dryer cabinet. Refer to *Figure 28*.
d. Swing bottom of front panel away from dryer to disengage hold-down clips and locators from cabinet top.
e. Disconnect wires from door switch. Refer to *Figure 34*.

NOTE: Refer to wiring diagram when rewiring switch.

f. Remove two screws holding cabinet top to front flange of cabinet. Refer to *Figure 29*.
g. Lift cabinet top to a vertical position by hinging it on the rear hold-down brackets. Refer to *Figure 30*.

NOTE: While servicing, cabinet top may be raised and hinged on the rear hold-down brackets or supported against wall behind dryer.

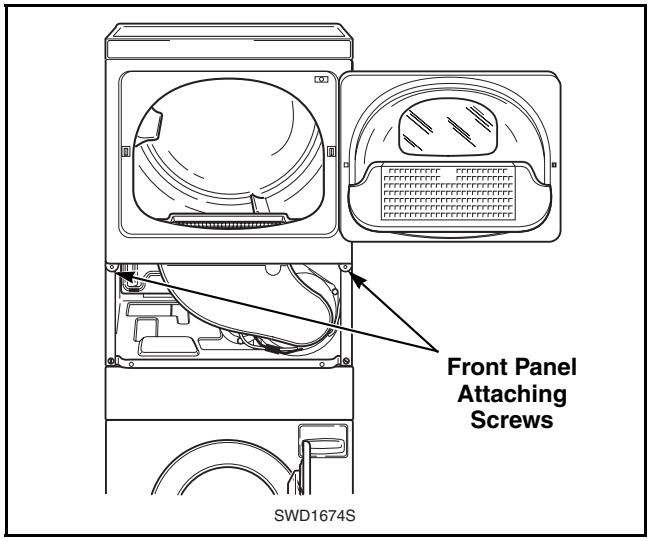

Figure 28

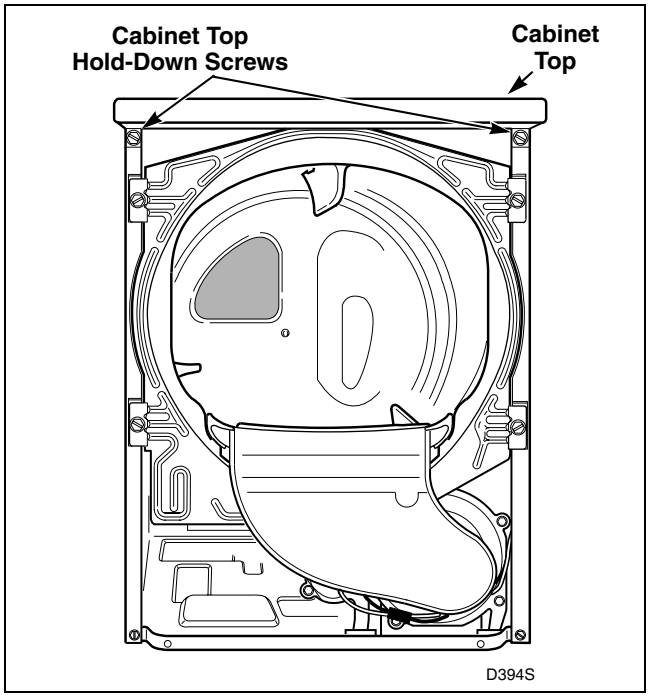

Figure 29

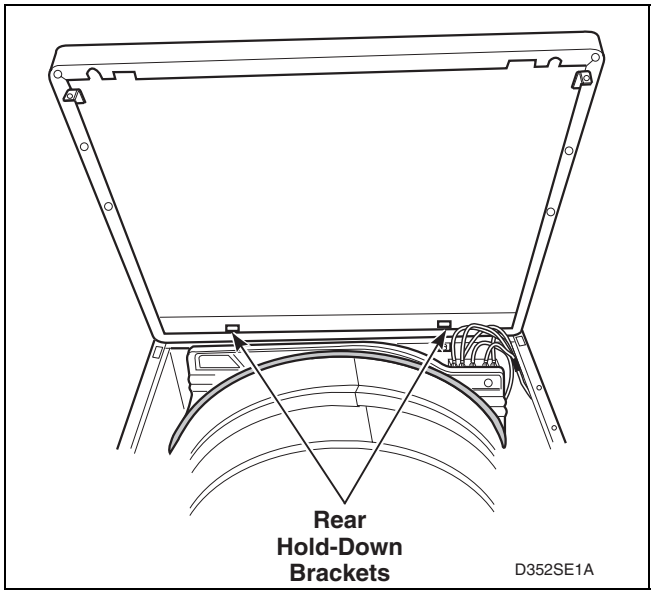

Figure 30

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

55. LINT FILTER

a. Open loading door and remove screw from end of lint filter. Refer to *Figure 31*

b. Lift lint filter out of air duct, paying close attention to orientation.

IMPORTANT: When installing lint filter, be sure to install the filter with the words facing the front of the dryer. If filter is installed backwards, lint will accumulate in exhaust system, which can adversely affect dryer performance.

56. DRYER LOADING DOOR

a. Open loading door.

b. Remove screws holding loading door to hinges. Refer to *Figure 31*.

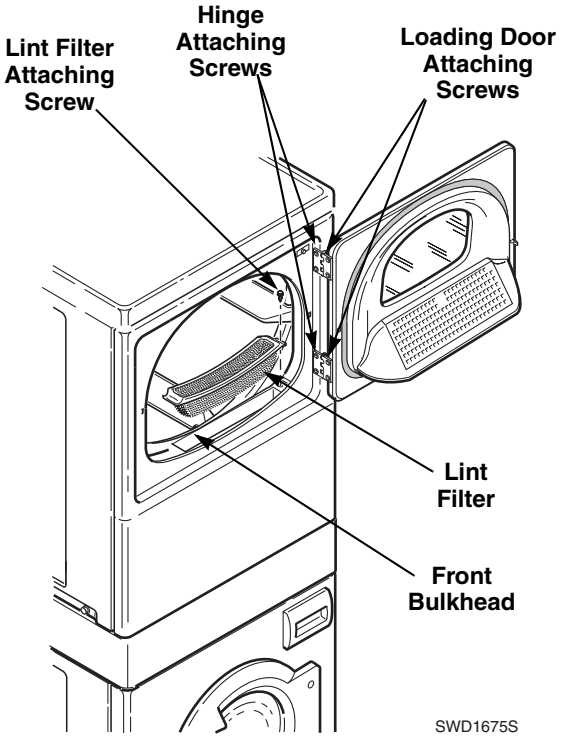

Figure 31

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

57. DRYER INNER AND OUTER DOOR PANELS AND DOOR PULL

a. Remove four screws holding door assembly to hinges. Refer to *Figure 31*.

b. Remove remaining screws around the door assembly and separate panels. Refer to *Figure 32*.

c. Remove wedge (located behind door pull) by carefully prying up on center of wedge. Refer to *Figure 32*.

d. Remove door pull. Refer to *Figure 32*.

58. DRYER DOOR STRIKE

a. Open loading door.

b. Remove screw holding door strike and bracket to loading door and remove strike and bracket. Refer to *Figure 32*.

NOTE: You may have to loosen the two screws on end of door to allow for strike and bracket removal.

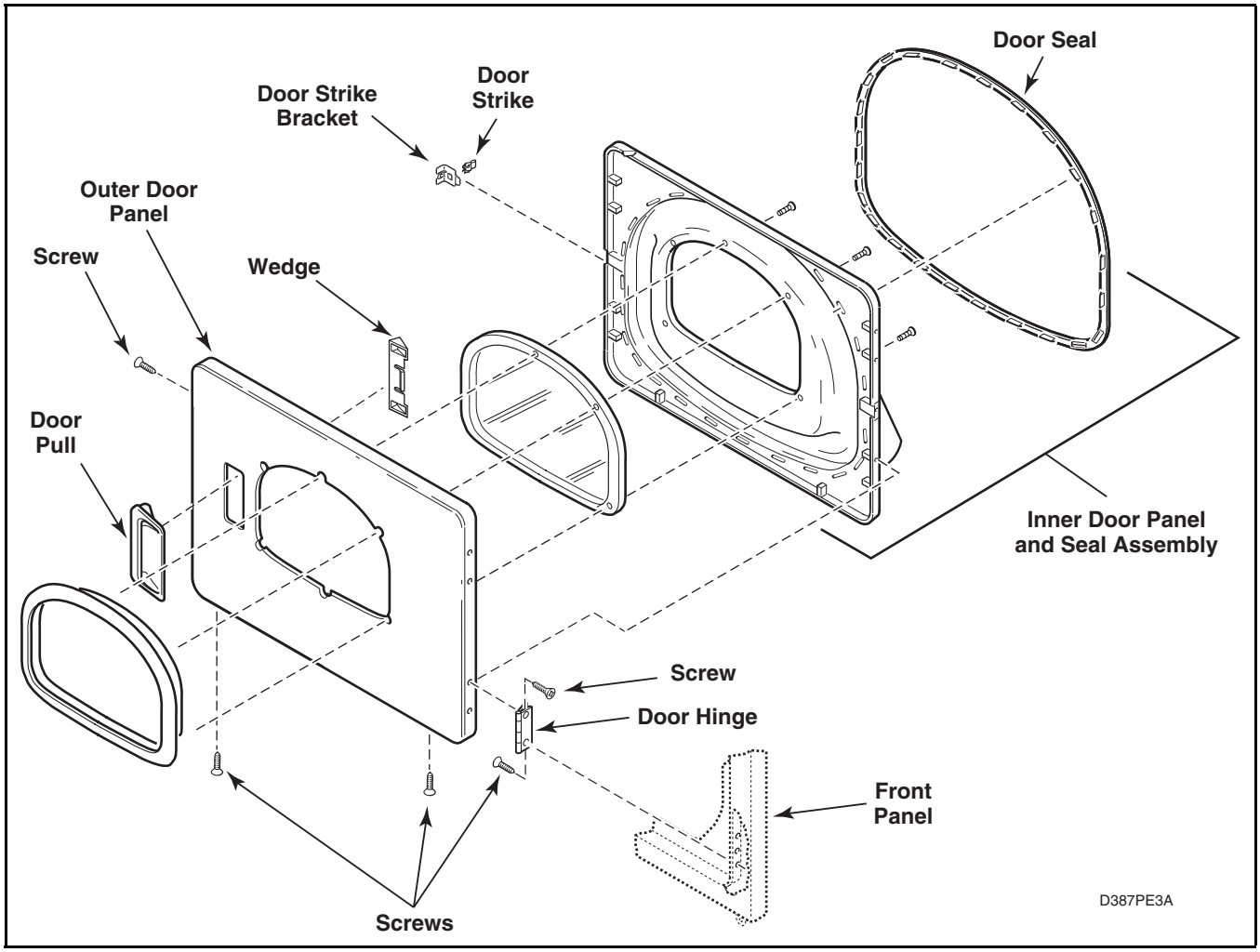

Figure 32

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

59. DRYER DOOR SEAL

a. Remove inner door panel from outer door panel. Refer to *Paragraph 57*.

b. Grasp either end of door seal at bottom of door and remove seal from tabs on inner door panel by gently pulling on the seal. Refer to *Figure 33*.

NOTE: When replacing seal, be sure seal is not stretched or distorted. The tab in the seal should be installed in each slot of the inner door panel, shown in *Figure 33*. The split in the seal must be at the bottom of the door. Make sure that each tab of the seal is fully engaged into the slot.

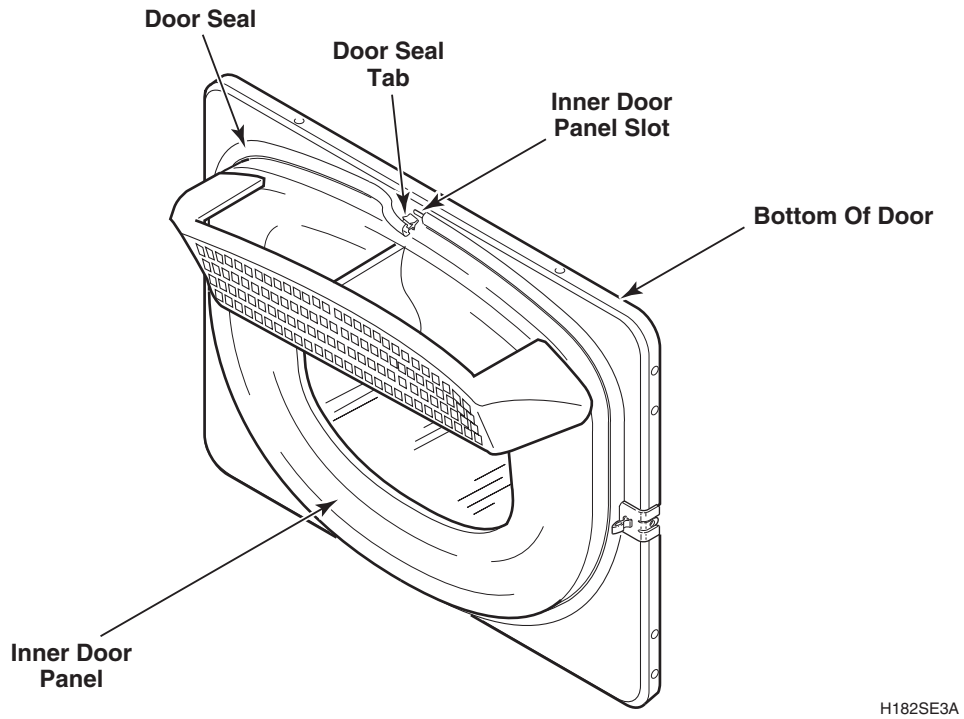

Figure 33

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

60. DRYER FRONT PANEL AND PANEL SEAL

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.
c. Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 28*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
d. Disconnect wires from door switch. Refer to *Figure 34*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Remove front panel seal from flange around inside of door opening. Refer to *Figure 35*.

NOTE: Be sure seal is properly positioned when installing on front panel.

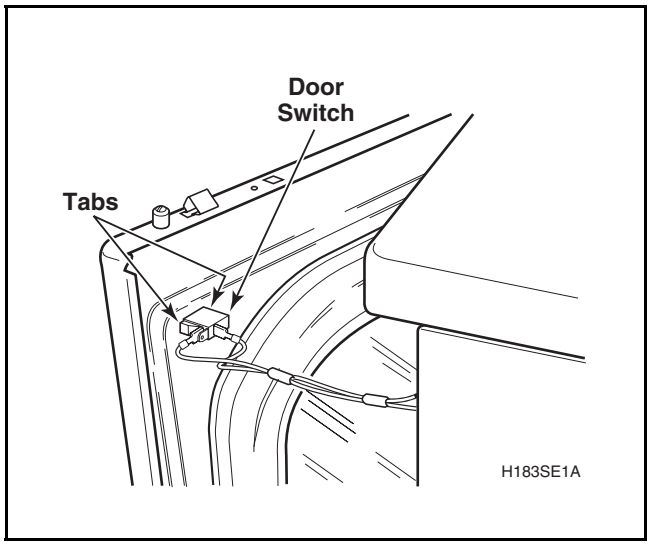

Figure 34

61. DRYER DOOR SWITCH

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.
c. Remove two screws holding tabs on front panel to dryer side panels. Refer to *Figure 28*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
d. Disconnect wires from door switch. Refer to *Figure 34*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Depress tabs on switch and push out of front panel. Refer to *Figure 34*.

62. DRYER DOOR CATCH

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.
c. Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 28*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
d. Disconnect wires from door switch. Refer to *Figure 34*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Depress tabs on top and bottom of catch and push out of front panel.

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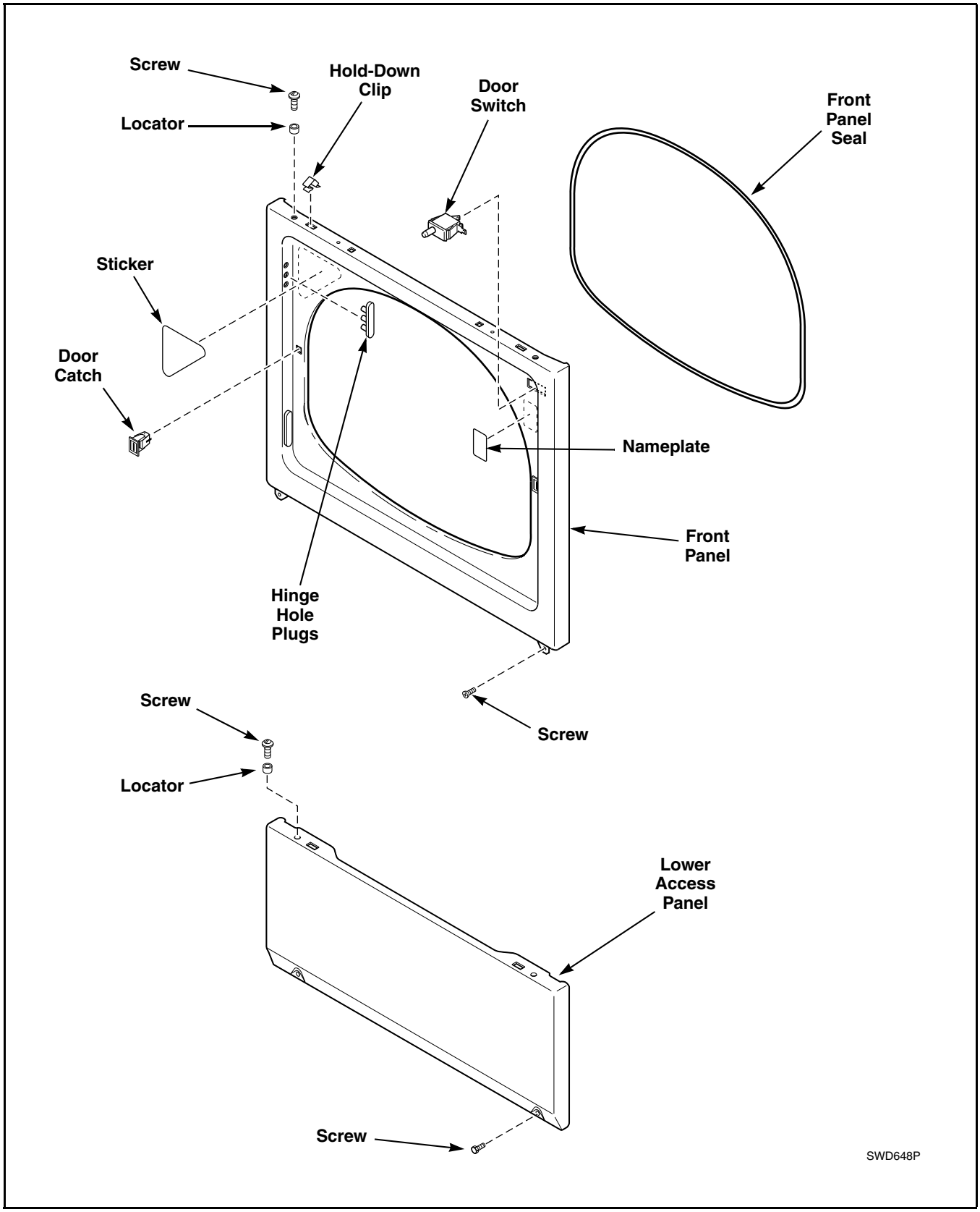

Figure 35

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

63. DRYER DOOR HINGE

a. Open loading door and, while supporting door, remove four screws holding door assembly to hinges. Refer to *Figure 36*.

b. Remove four screws holding hinges to front panel. Refer to *Figure 36*.

64. DRYER HOLD-DOWN CLIPS AND LOCATORS

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.

b. Gently lower access panel to disengage panel locators from bottom edge of front panel.

c. Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 28*. Swing bottom edge of front panel away from dryer far enough to disengage hold-down clips and panel locators from cabinet top.

d. Disconnect wires from door switch. Refer to *Figure 34*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Compress hold-down clips and remove from top of front panel. Refer to *Figure 35*.

f. Remove four screws holding four locators to access panel or front panel. Refer to *Figure 35*.

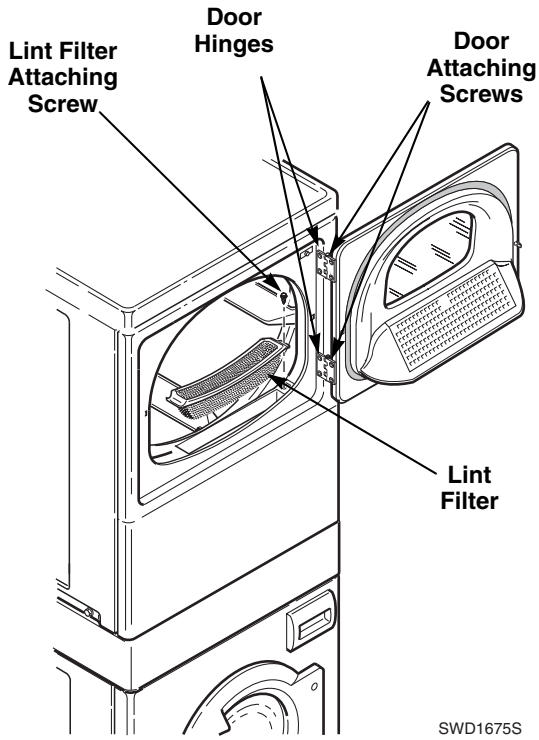

Figure 36

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

65. BURNER SYSTEM COMPONENTS (Gas Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.

c. **Complete Gas Valve Assembly.**

(1) Close main gas shut-off valve, disconnect igniter wires at disconnect blocks, sensor wires from sensor terminals, and wires from gas valve coils at the quick disconnect blocks. Refer to *Figure 37*.

(2) Disconnect gas shut-off valve from gas valve at the union nut. Refer to *Figure 37*.

(3) Remove three screws holding valve and mounting bracket to base. Refer to *Figure 37*.

(4) Lift gas valve and mounting bracket from base. Refer to *Figure 37*.

NOTE: The holding and booster coil, and secondary coil can be replaced individually.

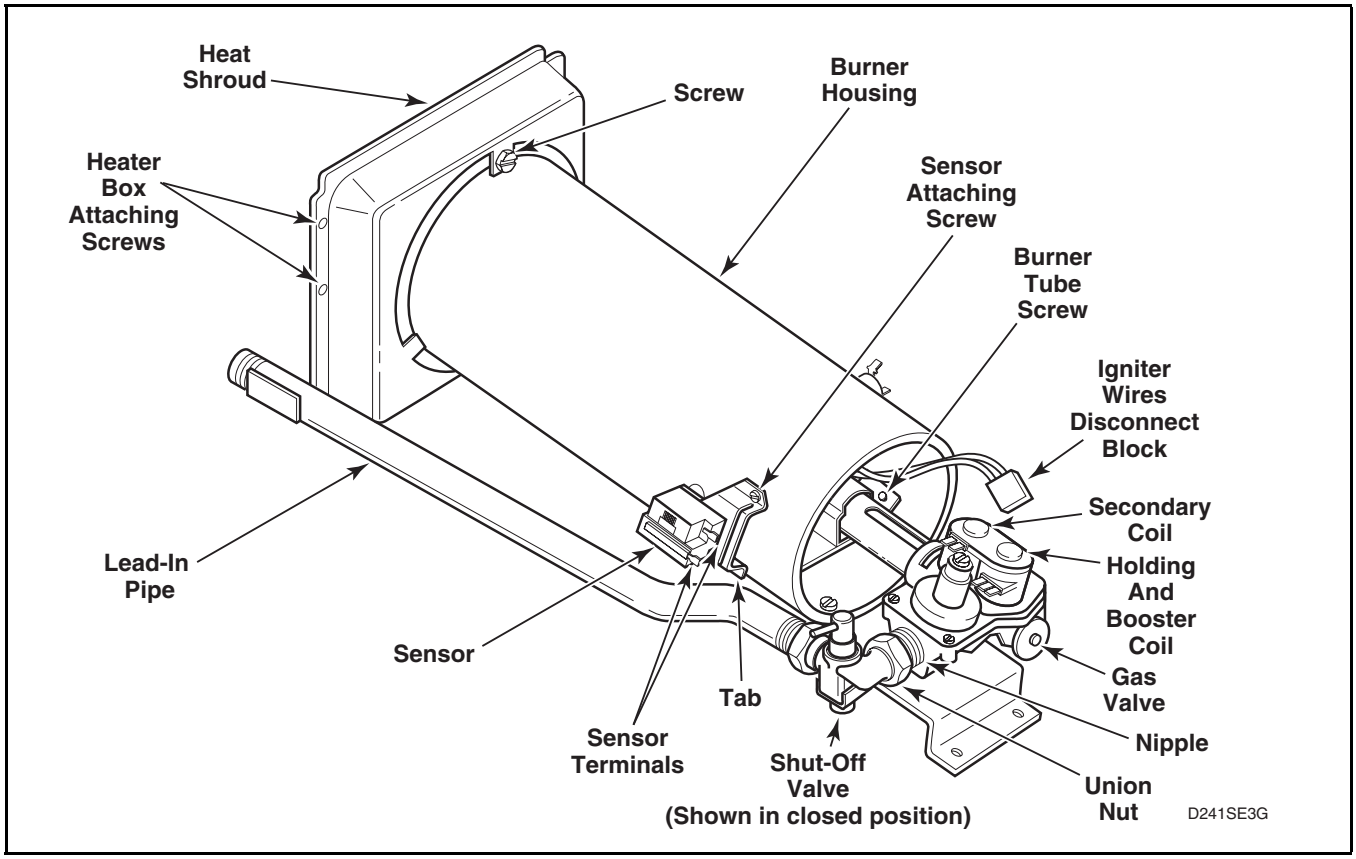

Figure 37

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

d. **Burner Tube, Igniter and Bracket**

NOTE: Burner tube and igniter can be removed without removing gas valve and bracket.

(1) Remove one screw from right side of burner housing holding burner tube in place. Refer to *Figure 39*.
(2) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. Refer to *Figure 37*.
(3) Carefully rotate burner tube and igniter **counterclockwise** so tab is at 8 o'clock position.
(4) Move air shutter end of burner tube slightly to right and CAREFULLY remove burner tube and igniter assembly out through front of dryer.
(5) Remove screw holding igniter and bracket to burner tube and remove igniter and bracket. Refer to *Figure 38*.

IMPORTANT: Use care while removing igniter to avoid damage. The igniter is very fragile.

IMPORTANT: Handle igniter by grasping the white ceramic portion of bracket only. DO NOT handle silicon carbide portion of igniter with hands or allow it to be contaminated by oil, grease or other foreign material. Oil, grease and other impurities or hairline cracks will cause igniter to burn out.

e. **Sensor**
(1) Remove wires from sensor terminals. Refer to *Figure 37*.
(2) Remove screw holding sensor to burner housing. Refer to *Figure 37*.

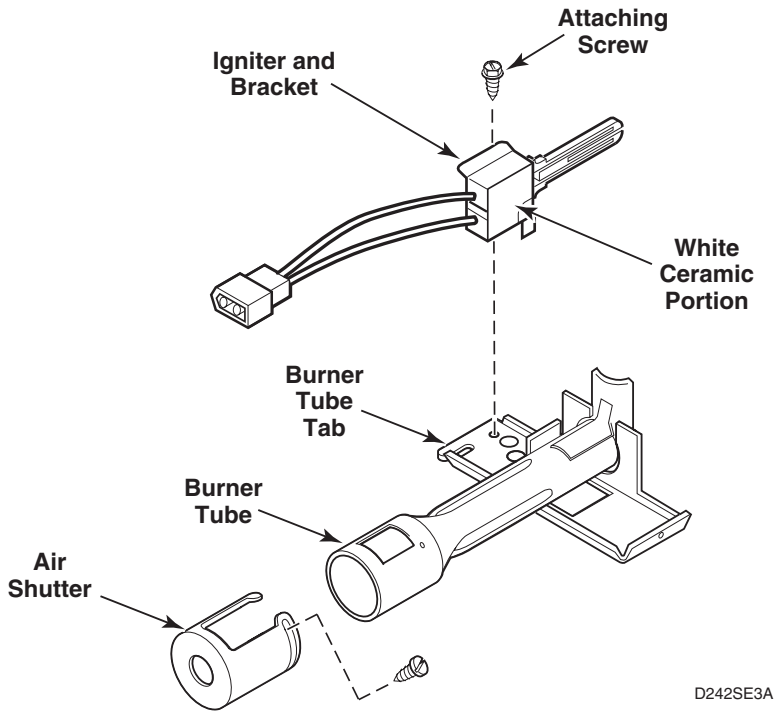

Figure 38

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

66. BURNER HOUSING AND HEAT SHROUD (Gas Models)

a. While supporting access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.
b. Gently lower access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.
c. Disconnect igniter wires at disconnect blocks, sensor wires from sensor terminals, and wires from gas valve coils at the quick disconnect blocks. Refer to *Figure 37*.
d. Remove screw from right side of burner housing, while holding burner tube in place. Refer to *Figure 39*.
e. Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. Refer to *Figure 37*.
f. Carefully rotate burner tube and igniter **counterclockwise** so tab is at 8 o'clock position.
g. Move air shutter end of burner tube slightly to the right and CAREFULLY remove burner tube and igniter assembly out through front of dryer.

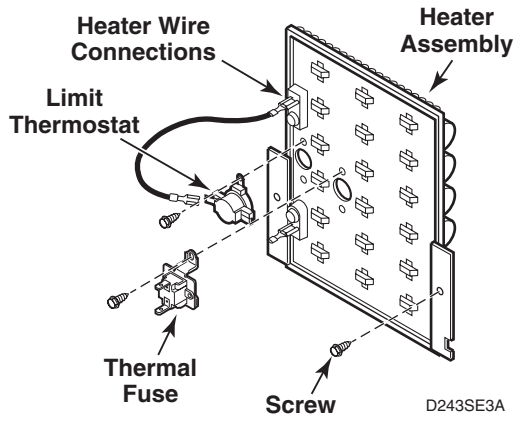
IMPORTANT: The igniter is very fragile. Be careful not to damage it during removal.

h. Remove screw holding burner housing to heat shroud. Refer to *Figure 37*.
i. Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer. Refer to *Figure 39*.
j. Remove two screws holding heat shroud to heater box and remove heat shroud out through front of dryer.

67. LIMIT THERMOSTAT

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.
c. Disconnect wires and remove screws holding limit thermostat to burner housing (gas models) or element plate (electric models). Refer to *Figure 39*.

ELECTRIC MODELS



GAS MODELS

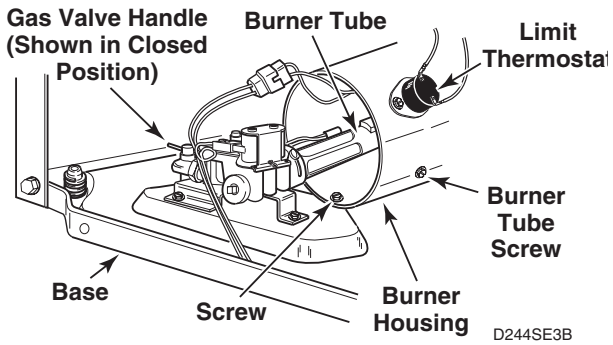


Figure 39

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

68. HEATER ASSEMBLY (Electric Models)

a. While supporting access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.
b. Gently lower access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.
c. Remove two screws holding heater assembly to heater box and remove heater assembly out through front of dryer. Refer to *Figure 39*.
d. Disconnect wires from heater assembly. Refer to *Figure 39*.

NOTE: When reassembling, be sure all wire connectors are tight on element terminals, thermal fuse and limit thermostat.

69. THERMOSTAT

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.
c. Disconnect wires and remove thermostat attaching screws. Refer to *Figure 39*.

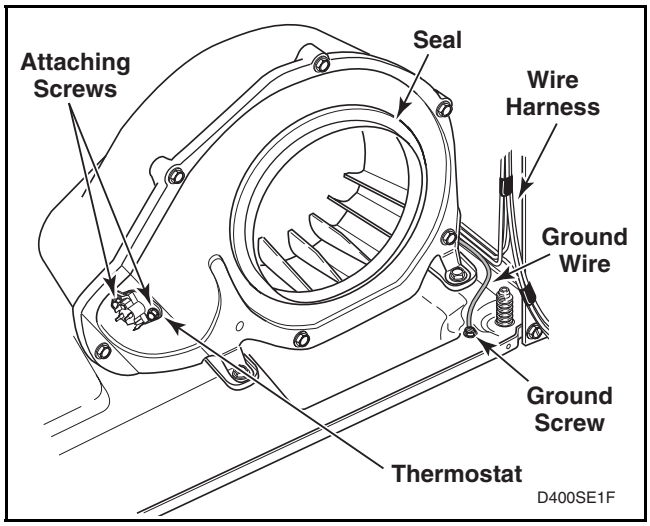

Figure 40

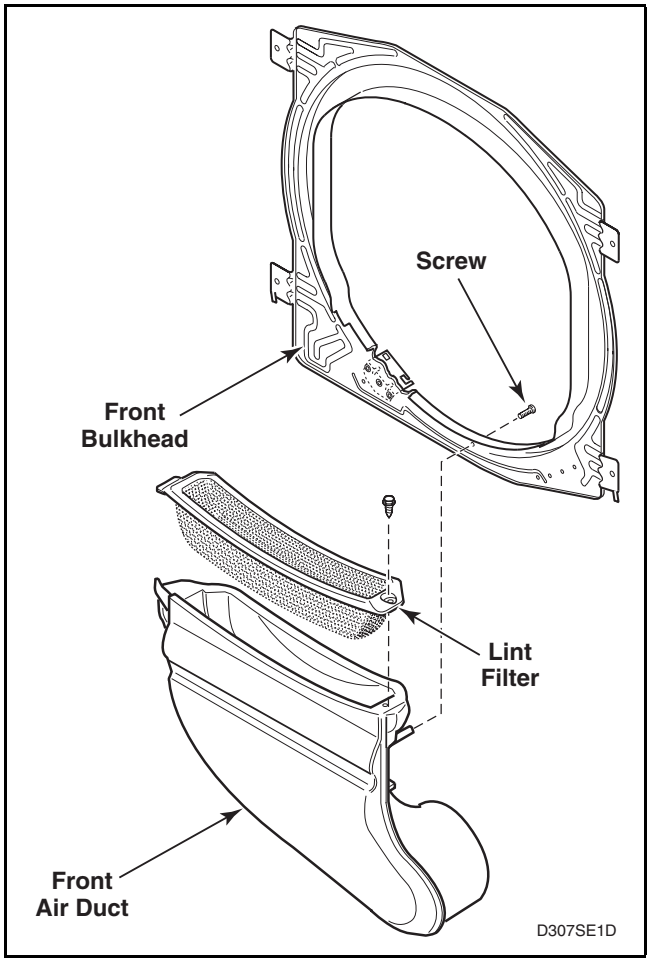

Figure 41

70. AIR DUCT

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.
c. Open loading door and remove screw from end of lint filter. Refer to *Figure 31*
d. Lift lint filter out of air duct, paying close attention to orientation.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

IMPORTANT: When installing lint filter, be sure to install the filter with the words facing the front of the dryer. If filter is installed backwards, lint will accumulate in exhaust system, which can adversely affect dryer performance.

e. Remove three screws holding the air duct to the front bulkhead inside cylinder. Refer to *Figure 41*.

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

f. Carefully lift air duct out of dryer.

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. Refer to *Figure 40*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

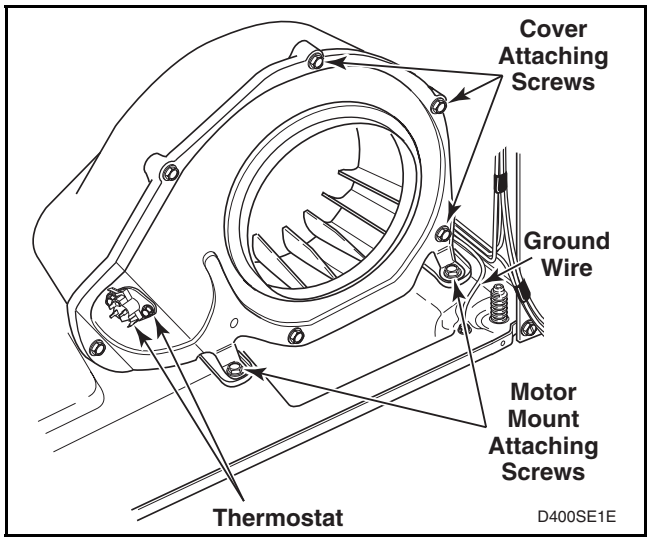

Figure 42

71. DRYER MOTOR AND EXHAUST ASSEMBLY

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.
c. Open loading door, remove screw, and lift filter out of bulkhead.
d. Remove screws holding air duct to front bulkhead (inside cylinder). Refer to *Figure 41*.

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. Refer to *Figure 42*. If the seal is installed improperly, the airflow through the exhaust system will be restricted, which can adversely affect dryer performance.

e. Disconnect wires from thermostat.

NOTE: Refer to wiring diagram when rewiring thermistor.

f. Remove screw holding ground wire to dryer base. Refer to *Figure 42*.
g. Remove cylinder belt from idler and motor pulleys. Refer to *Figure 43*.
h. Disengage motor wire harness terminal block from motor switch by pressing in on the movable locking tabs (located on each end of the terminal block) and pulling away from motor. Refer to *Figures 46* and *47*.
i. Remove two screws holding motor mounting bracket to dryer base. Refer to *Figure 42*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

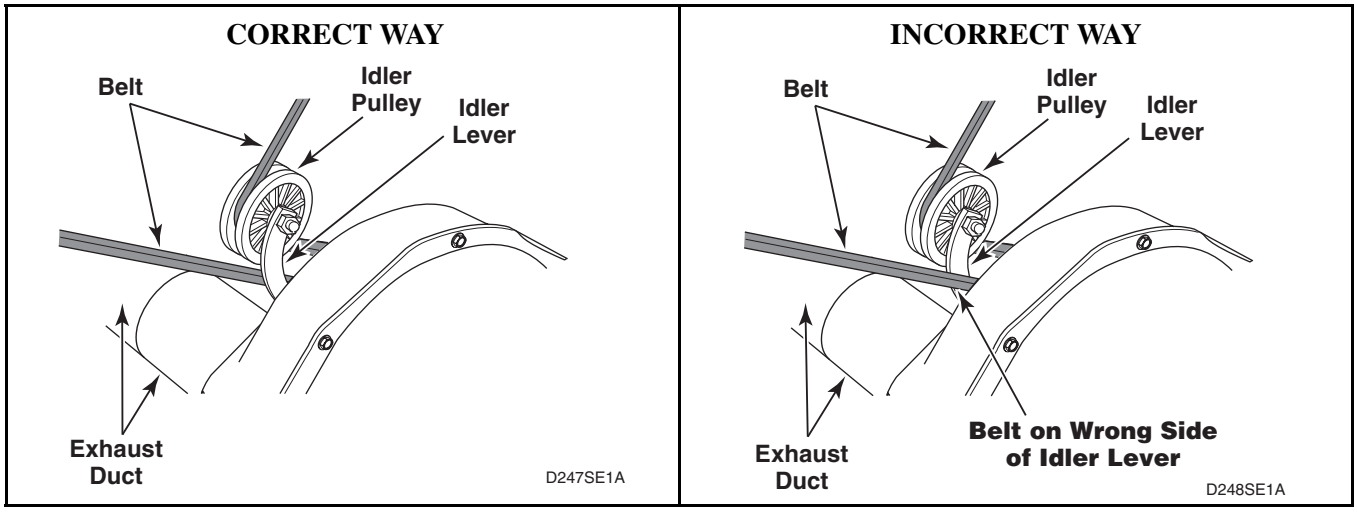

Figure 43

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. Refer to *Figure 40*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

IMPORTANT: When reinstalling motor and exhaust assembly, be sure wire harness on right side is clipped to motor mounting bracket and is routed along dryer base (between motor mounting bracket and right side of cabinet). Refer to *Figure 41*. Tab on rear of motor mounting bracket must be slid into slot in dryer base. Be sure the belt has been installed on the correct side of the idler lever. Refer to *Figure 43*.

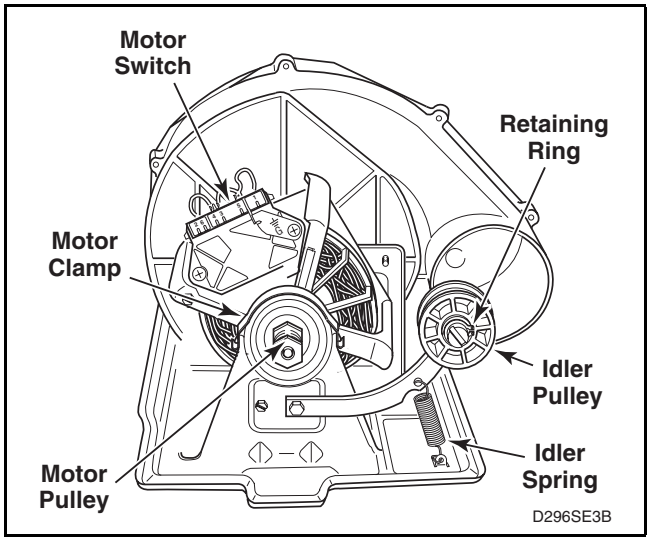

Figure 44

j. Pull assembly forward and disengage the middle exhaust duct.
k. Rotate the assembly 90° **counterclockwise** and slide out through front of dryer.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

l. **Motor pulley and idler pulley assemblies.** Refer to *Figure 44* for motor and idler pulley removal.

NOTE: When repairing or replacing the idler arm, it is important to make sure the idler arm moves freely. To ensure that the idler arm can move freely, proceed as follows:

(1) Unhook idler spring.
(2) Lift idler arm approximately 3 inches and release. If idler arm does not fall back to the base of the motor mount, then idler arm bolt is too tight.
(3) Loosen idler arm bolt 1/4 turn.
(4) Add grease between idler arm and motor mount.

m. **Impeller and housing.**
(1) Remove screws holding cover to housing. Refer to *Figure 42*.
(2) Hold motor pulley securely and unthread impeller from motor shaft (right hand thread). Use a 7/8 inch, 6 point socket to aid in the removal of the impeller.
(3) Remove three screws holding the exhaust housing to the motor mounting bracket. Refer to *Figure 45*.

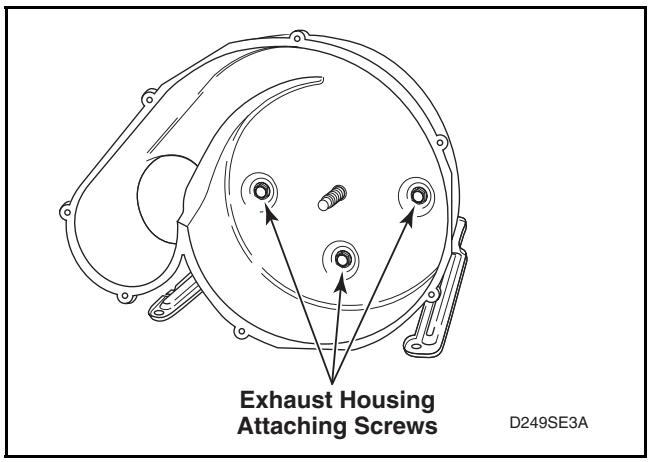

Figure 45

n. **Motor.**
(1) Disengage motor wire harness terminal block from the motor by pressing in on the movable locking tabs (located on each side of the terminal block) and pulling away from motor. Refer to *Figure 46*.

IMPORTANT: To avoid an open circuit, DO NOT pull on the terminal block wires when removing blocks from motor as this could damage the wires or terminal crimping.

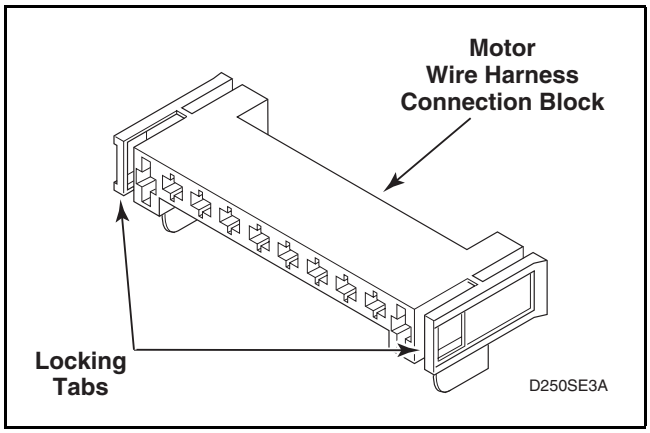

Figure 46

Before attaching wire harness terminal block to motor, be sure all the male terminals on motor are straight and are capable of accepting the terminals from the wire harness terminal block.

(2) Pry two motor clamps off motor mounting bracket with screwdriver, then lift motor out of mounting bracket. Refer to *Figure 44*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

NOTE: When replacing motor, motor switch should be at 10 o'clock position. The positioning tab on the motor should be engaged with the anti-rotating notch in the motor bracket.

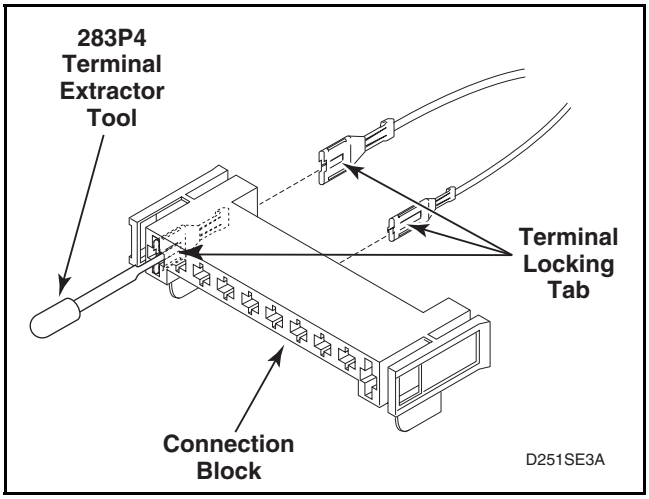

Figure 47

o. **Motor Connection Block Terminals**
Remove terminals from the motor wire harness connection block using No. 283P4 Terminal Extractor Tool as follows:
(1) Insert the tool into the block on the back of the terminal being removed. Refer to *Figure 47*.
(2) Apply tool pressure to compress the terminal locking tab on terminal and force the terminal and wire out back side of connection block. Refer to *Figure 47*.

To install terminal in connection block, insert terminal (with wire securely crimped in place) into back side of connection block. Push terminal into connection block until locking tab on terminal spreads and holds terminal in place.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

72. DRYER FRONT BULKHEAD ASSEMBLY

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.

c. Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 28*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.

d. Disconnect wires from door switch. Refer to *Figure 34*.

NOTE: Refer to wiring diagram when rewiring switch.

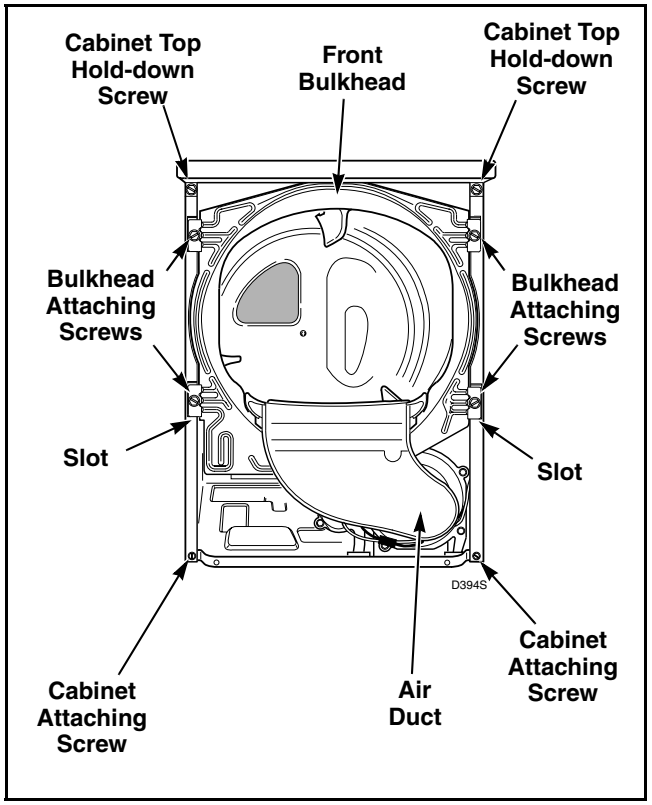

Figure 48

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

e. Disengage belt from motor and idler pulley. Refer to *Figure 43*.

f. Remove four screws holding bulkhead to front flange of cabinet and lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 48*.

g. Remove air duct assembly.

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. Refer to *Figure 40*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

h. **Cylinder Glides and Glide Bracket.** Refer to *Figure 49*.

(1) Unsnap glide from each glide bracket.

(2) Drill out rivets holding glide bracket to front bulkhead.

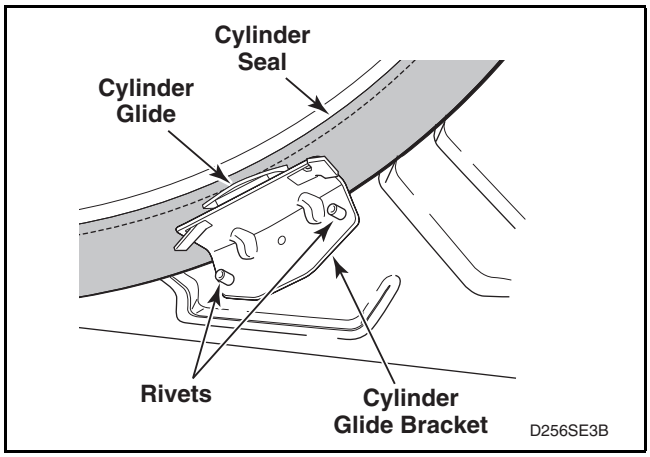

Figure 49

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

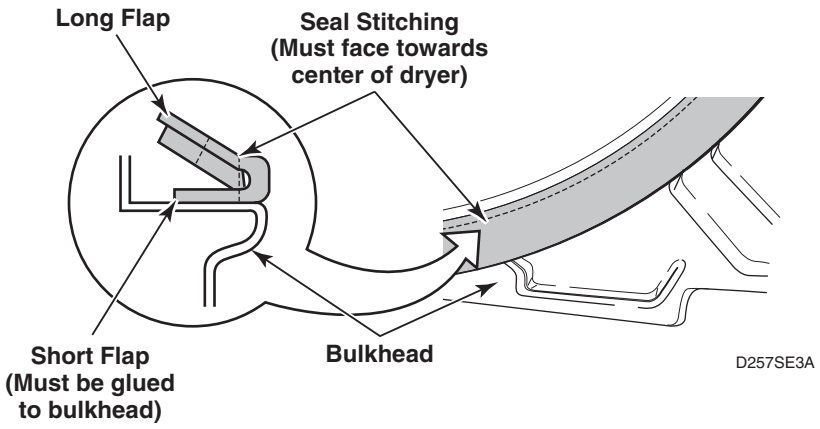

Figure 50

i. **Front Cylinder Seal** (Refer to *Figure 50*.)
When installing the cylinder seal, it is important to remember these two steps:
(1) The stitching on the seal must face towards center of dryer.
(2) The short flap must be glued to the bulkhead and the long flap left loose.

IMPORTANT: The replacement seal can be adhered to the bulkhead using No. 22506P Sealant. This is accomplished by applying a bead of sealant around the entire flanged area where the felt seal contacts the bulkhead.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

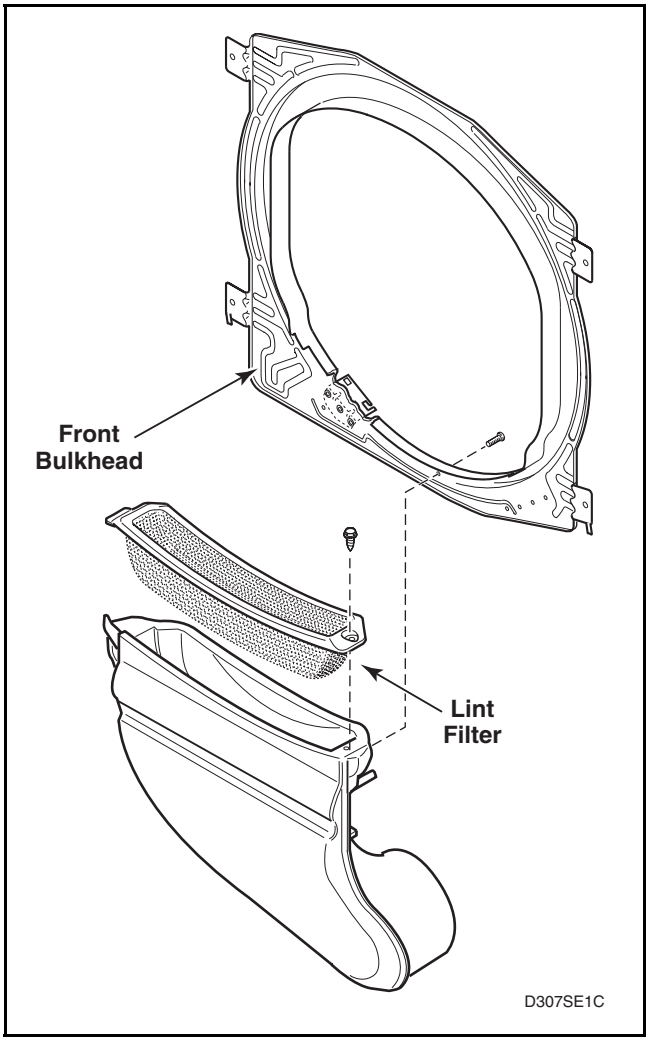

Figure 51

73. CYLINDER BELT

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.

c. Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 28*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.

d. Disconnect wires from door switch. Refer to *Figure 34*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Disengage belt from motor and idler pulleys. Refer to *Figure 43*.

f. Remove four screws holding bulkhead to front flange of cabinet. Then, lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 48*.

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. Refer to *Figure 40*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

g. While supporting cylinder, carefully remove belt from cylinder.

NOTE: When reinstalling belt, be sure belt is properly installed on motor and idler pulleys, and is on the correct side of the idler lever. Refer to *Figure 43*. Belt must be positioned around center section of cylinder approximately three inches ahead of rear rib on cylinder. Refer to *Figure 52*. After installing belt, manually rotate cylinder counterclockwise to check that belt is properly aligned.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

74. DRYER CYLINDER ASSEMBLY

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.

c. Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 28*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.

d. Disconnect wires from door switch. Refer to *Figure 34*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Disengage belt from motor and idler pulleys. Refer to *Figure 43*.

NOTE: When reinstalling belt, be sure belt is properly installed on motor and idler pulleys, and is on the correct side of the idler lever. Refer to *Figure 43*. Belt must be positioned around center section of cylinder approximately three inches ahead of rear rib on cylinder, with the ribbed surface of the belt against the cylinder. Refer to *Figure 52*. After installing belt, manually rotate cylinder counterclockwise to check that belt is properly aligned.

f. Remove four screws holding bulkhead to front flange of cabinet. Then lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 48*.

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. Refer to *Figure 40*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

g. Remove two cabinet top hold-down screws. Refer to *Figure 48*.

h. Carefully remove cylinder out through front of dryer.

i. Baffles – Remove screws holding baffles to cylinder. Refer to *Figure 52*.

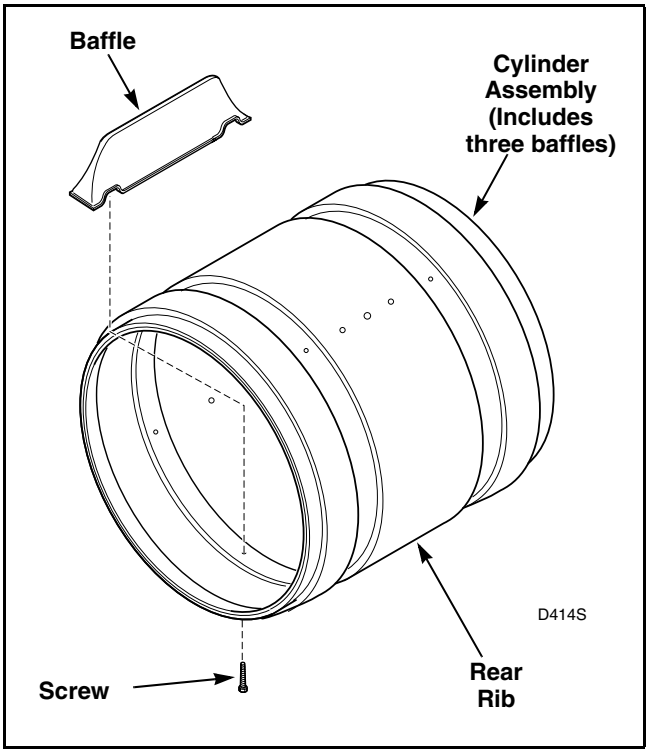

Figure 52

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

75. DRYER REAR SEAL

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.

c. Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 28*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.

d. Disconnect wires from door switch. Refer to *Figure 34*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Remove two cabinet top hold-down screws. Refer to *Figure 48*.

f. Lift cabinet top to a vertical position by hinging it on the rear hold-down brackets.

NOTE: Cabinet top may be raised and hinged on the rear hold-down brackets, or supported against wall behind the dryer.

g. Disengage belt from motor and idler pulleys. Refer to *Figure 43*.

NOTE: When reinstalling belt, be sure belt is properly installed on motor and idler pulleys and is on the correct side of the idler pulleys. Refer to *Figure 43*. Belt must be positioned around center section of cylinder approximately three inches ahead of rear rib on cylinder with the ribbed surface of the belt against cylinder. Refer to *Figure 52*. After installing belt, manually rotate cylinder counterclockwise to check that belt is properly aligned.

h. Remove four screws holding bulkhead to front flange of cabinet. Then, lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 48*.

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. Refer to *Figure 40*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

i. Manually rotate cylinder until one of the baffles is at the 6 o'clock position and carefully remove cylinder out through front of dryer.

j. Pull rear cylinder seal from flanged edge of bulkhead. Refer to *Figure 53*.

NOTE: When installing the cylinder seal, it is important to remember these two important steps:

(1) The stitching on the seal must face towards the dryer center. Refer to *Figure 50*.

(2) The short flap, shown in *Figure 50*, must be glued to the bulkhead and the long flap left loose.

IMPORTANT: The seal can be adhered to the bulkhead using replacement sealant No. 22506P. This is accomplished by applying a bead of sealant around the entire flanged area where the felt seal contacts the bulkhead.

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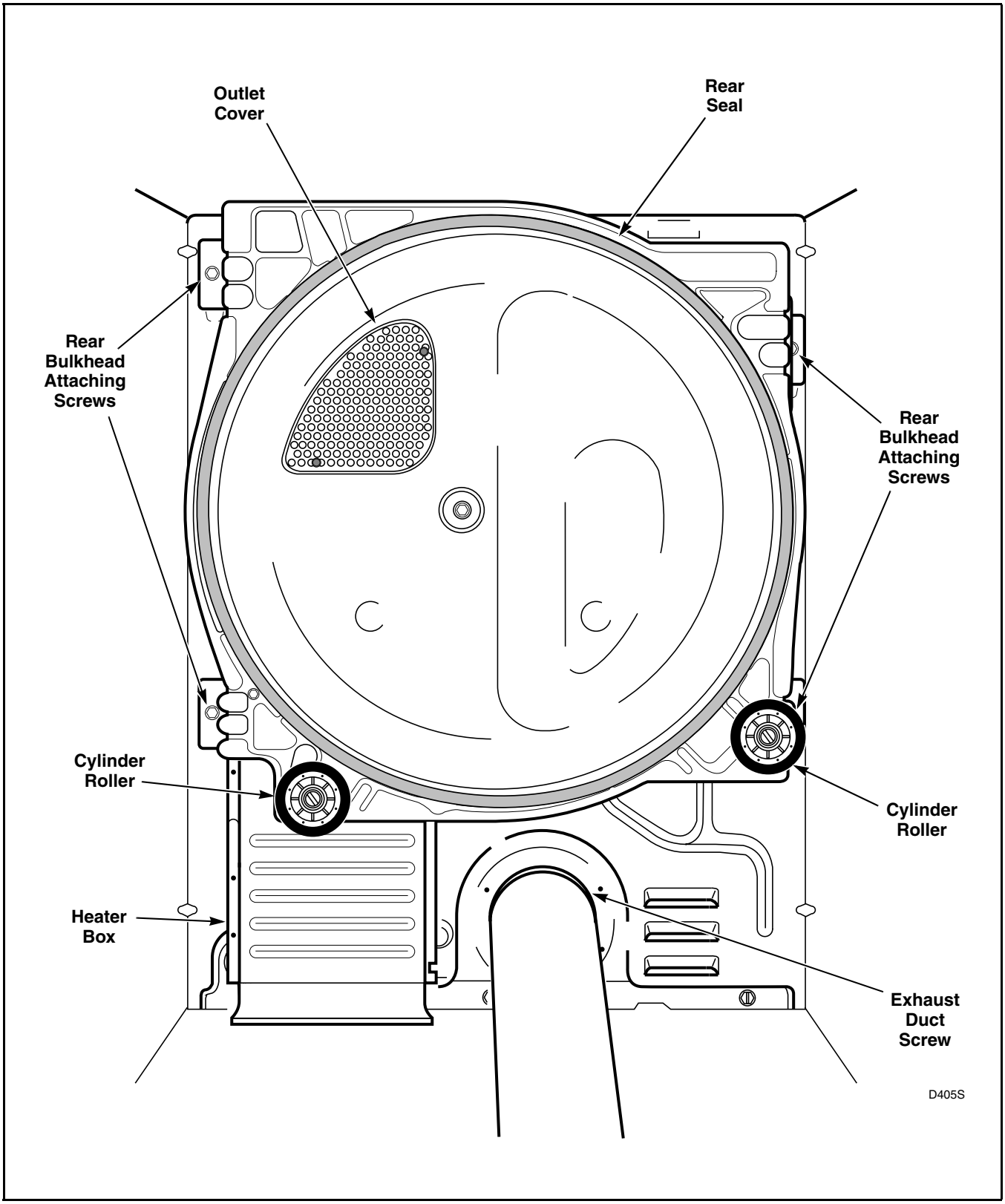

Figure 53

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

76. CYLINDER ROLLERS

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.
b. Gently lower the access panel to disengage panel locators from bottom edge of front panel. Refer to *Figure 35*.
c. Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 28*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
d. Disconnect wires from door switch. Refer to *Figure 34*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Disengage belt from motor and idler pulleys. Refer to *Figure 43*.
f. Remove four screws holding bulkhead to front flange of cabinet. Then lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 48*.

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. Refer to *Figure 40*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

g. Pull cylinder forward allowing rear of cylinder to drop down exposing rollers. Refer to *Figure 54*.
h. Refer to *Figure 54* for removal of roller from bulkhead.

NOTE: When replacing the cylinder roller, it is important that cylinder roller is installed with the flanged surface of the roller bearing facing towards the front of the dryer.

77. OUTLET COVER

a. Open door and remove two screws holding outlet cover to rear bulkhead. Refer to *Figure 53*.

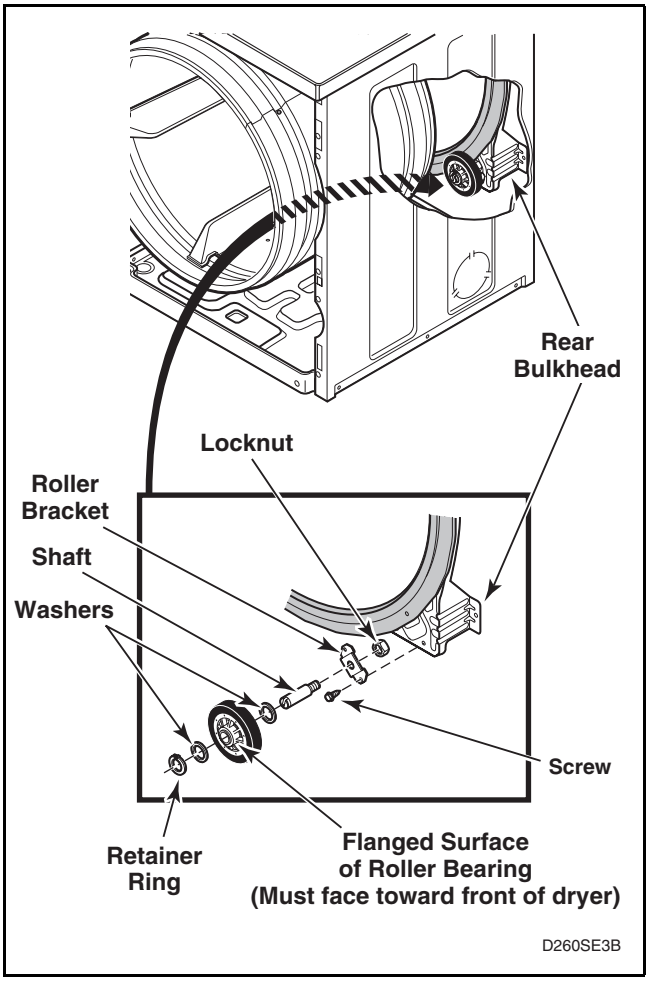

Figure 54

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

78. REAR BULKHEAD AND HEATER DUCT

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.

b. Gently lower the access panel to disengage panel locators from bottom edge of front panel. Refer to *Figure 35*.

c. Remove two screws from bottom tabs on front panel. Refer to *Figure 28*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.

d. Disconnect wires from door switch. Refer to *Figure 34*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Disengage belt from motor and idler pulleys. Refer to *Figure 43*.

NOTE: When reinstalling belt, be sure belt is properly installed on motor and idler pulleys and is on the correct side of the idler pulleys. Refer to *Figure 43*. Belt must be positioned around cylinder approximately three inches ahead of rear rib on cylinder with the ribbed surface of the belt against the cylinder. Refer to *Figure 52*. After installing belt, manually rotate cylinder counterclockwise to check that belt is properly aligned.

f. Remove four screws holding bulkhead to front flange of cabinet. Then lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 48*.

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. Refer to *Figure 40*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

g. Remove two cabinet top hold-down screws. Refer to *Figure 48*.

h. Carefully remove cylinder out through front of dryer.

i. **Gas Models:**

(1) Disconnect igniter wires at disconnect blocks, sensor wires from sensor terminals, and wires from gas valve coils at the quick disconnect blocks. Refer to *Figure 37*.

(2) Remove burner tube attaching screw from right side of burner housing, while holding burner tube in place. Refer to *Figure 39*.

(3) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. Refer to *Figure 38*.

(4) Carefully rotate burner tube and igniter **counterclockwise** so tab is at the 8 o'clock position.

(5) Move air shutter end of burner tube slightly to right and CAREFULLY remove burner tube and igniter assembly out through front of dryer. Refer to *Figure 38*.

IMPORTANT: The igniter is very fragile. Be careful not to damage it during removal.

(6) Remove screw holding burner housing to heat shroud. Refer to *Figure 37*.

(7) Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer. Refer to *Figure 39*.

(8) Remove two screws holding shroud to heater box, and remove shroud out through front of dryer. Refer to *Figure 37*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

j. **Electric Models:**
   (1) Remove two screws holding element and plate to heater box, then pull element down and away from heater box. Refer to *Figure 39*.
   (2) Remove all wires from terminal block. (Refer to appropriate wiring diagram when rewiring terminal block.)
   (3) Remove screw holding terminal block to rear bulkhead. Refer to *Figure 56*.

k. While supporting bulkhead, remove the four screws holding rear bulkhead to dryer cabinet, then lift complete assembly out of dryer. Refer to *Figure 53*.

l. Remove heater duct from rear bulkhead. Refer to *Figure 55*.

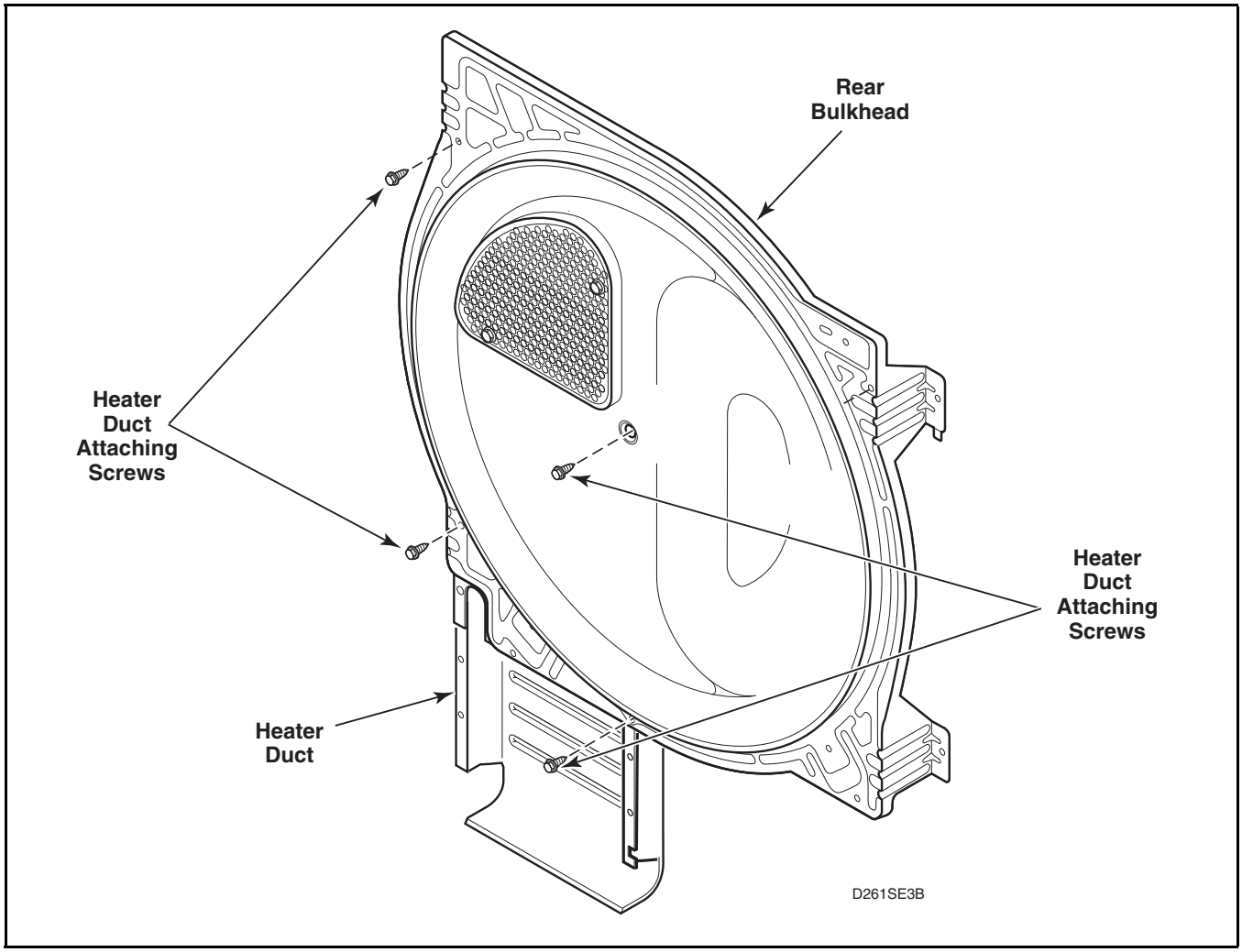

Figure 55

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

79. TERMINAL BLOCK OR POWER CORD

a. **Terminal Block:**

(1) While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.

(2) Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.

(3) Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 28*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.

(4) Disconnect wires from door switch. Refer to *Figure 34*.

NOTE: Refer to wiring diagram when rewiring switch.

(5) Remove two cabinet top hold-down screws. Refer to *Figure 29*.

(6) Lift cabinet top to a vertical position by hinging it on the rear hold-down brackets. Refer to *Figure 30*.

NOTE: When servicing, cabinet top may be raised and hinged on the rear hold-down brackets, or supported against wall behind the dryer.

(7) Remove all wires from terminal block.

NOTE: Refer to wiring diagram when rewiring terminal block.

(8) Remove screw holding terminal block to rear bulkhead. Refer to *Figure 56*.

NOTE: Do not let terminal block insulation drop when removing the block. Insulation must be in place when reinstalling block.

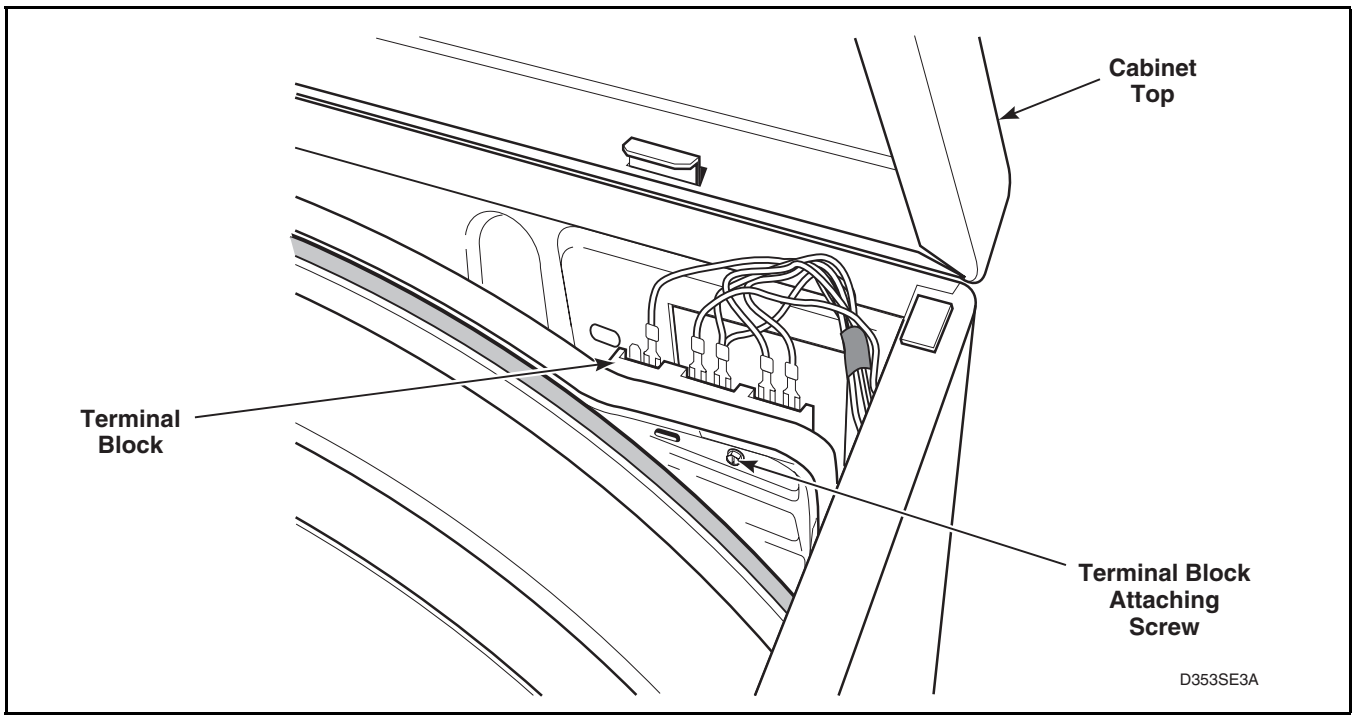

Figure 56

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

b. **Power Cord:**
   (1) Remove access plate on rear of cabinet.
   (2) Remove strain relief.
   (3) Remove screw holding power cord ground wire to rear bulkhead. Refer to *Figure 57*.

NOTE: Reinstall screw and ground wires into same hole in bulkhead when reinstalling power cord.

   (4) Disconnect molex plug and remove power cord from rear of dryer cabinet.

NOTE: A qualified electrician should check the polarity of the wall receptacle. If a voltage reading is measured other than that illustrated, the qualified electrician should correct the problem.

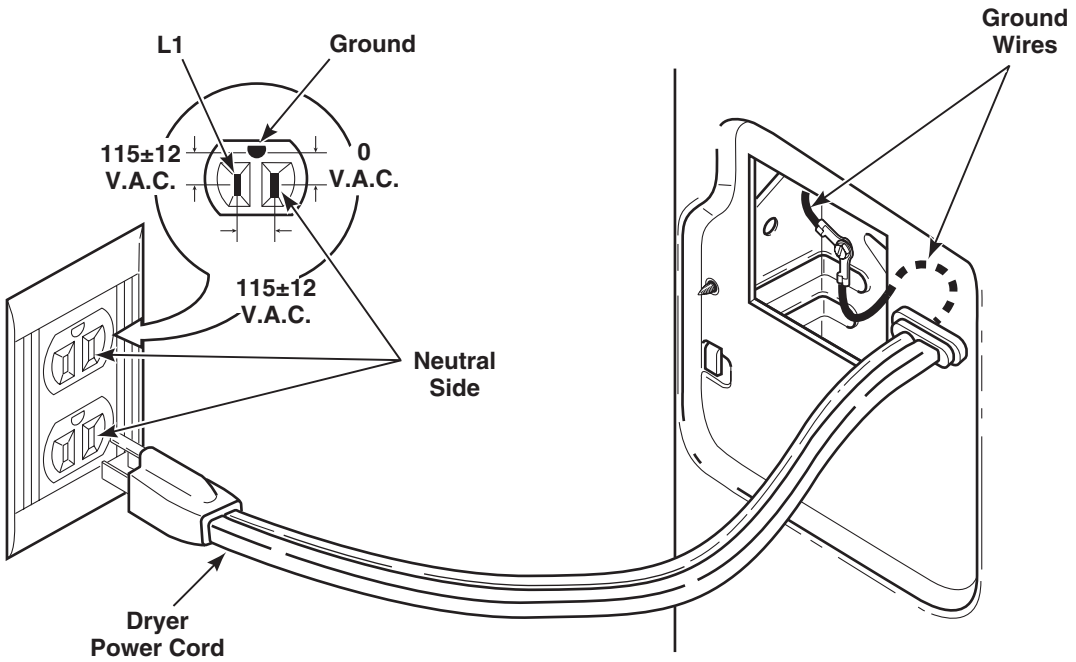

Figure 57

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Notes

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Section 6
Adjustments

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

IMPORTANT: When reference is made to directions (right or left) in this manual, it is from operator's position facing front of washer.

80. CABINET LEVELING LEGS

a. Place washer in position on a clean, firm and reasonably level floor. Installing the washer on any type of carpeting is not recommended.

b. Loosen locknuts and adjust the leveling legs until the washer **does not rock**. Refer to *Figure 58*.

c. Tighten the locknuts securely against the washer base. If the locknuts are not tight, washer will move out of position during operation.

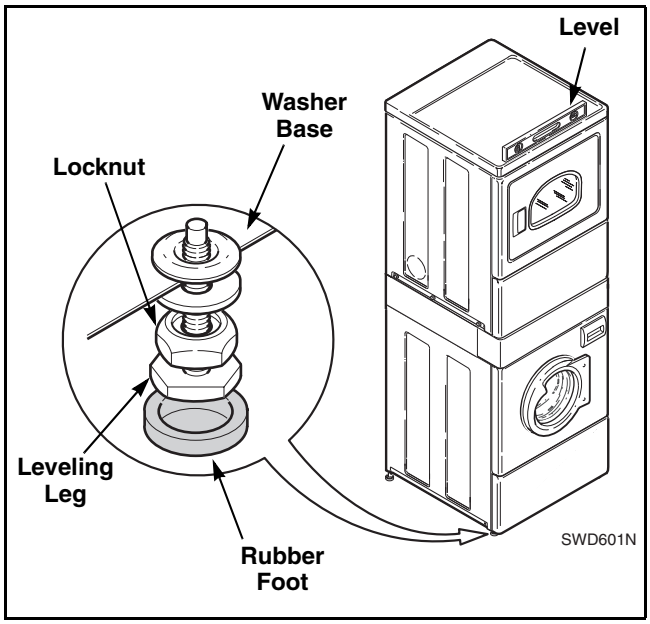

Figure 58

CAUTION

DO NOT slide washer across floor if the leveling legs have been extended, as legs and base could become damaged.

W248

CAUTION

Use of the dispenser drawer or washer door as a handle in the transportation of the washer may cause damage to the dispenser or door.

W185

d. Place rubber feet on all four leveling legs. Refer to *Figure 58*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

81. WASHER LOADING DOOR

a. Open loading door.

b. Remove door bezel to gain access to nuts. Refer to *Figure 59*.

c. The loading door can be adjusted up or down somewhat by loosening screws holding door to hinge, then raise or lower door before retightening screws. Refer to *Figure 59*.

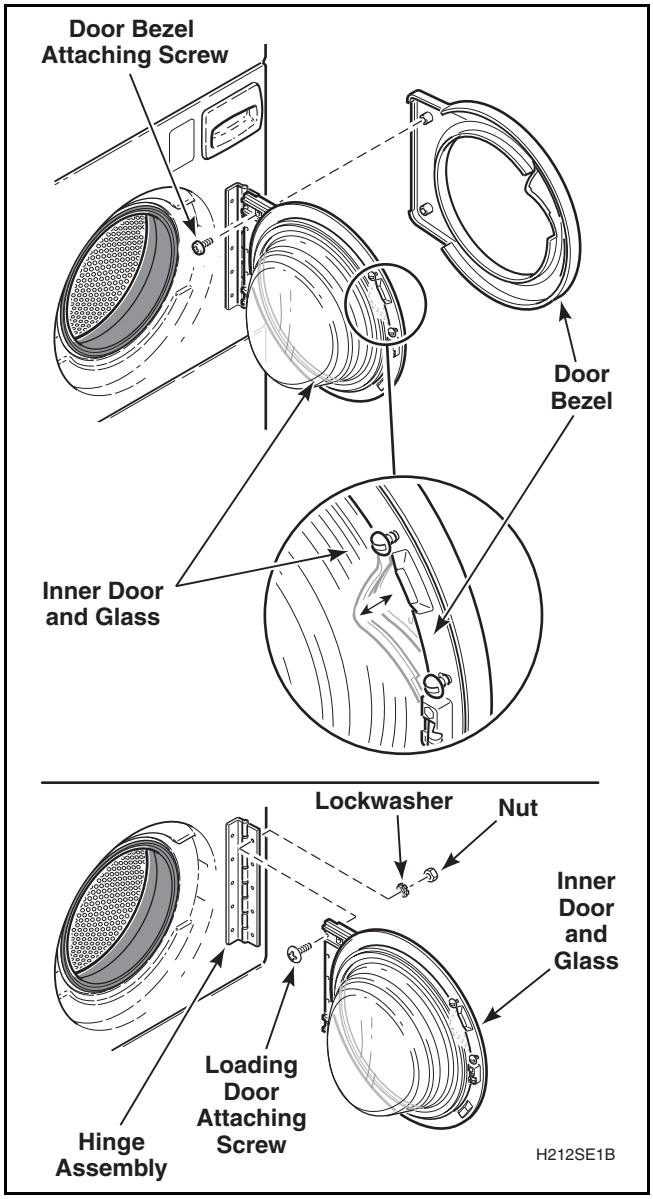

Figure 59

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

82. WASHER MOTOR BELT TENSION

NOTE: Belt adjustment procedures are done through front of washer, however, as an option, washer can be moved from its location and belt adjustment can be done through lower access panel opening on rear panel.

a. While supporting lower front access panel, remove two screws from bottom edge of access panel and remove panel. Refer to *Figure 8*.
b. Working through the access door opening, place a locking pliers on the metal rod and loosen the two adjusting bolts. Refer to *Figure 60*. Repeat procedure to loosen the two pivot bolts. Refer to *Figure 60*.
c. Pull down on motor to increase belt tension. Use a Burroughs belt gauge to obtain proper tension. Proper belt tension is obtained when belt can be deflected approximately 1/4 inch (6.35 mm) from normal position when moderate pressure 50 to 60 pounds (22.68 to 27.22 Kg) is applied to a point midway between pulleys. Refer to *Figure 60*.
d. After proper belt tension has been obtained, tighten belt adjusting bolts firmly, then tighten pivot bolts. Refer to *Figure 60*.

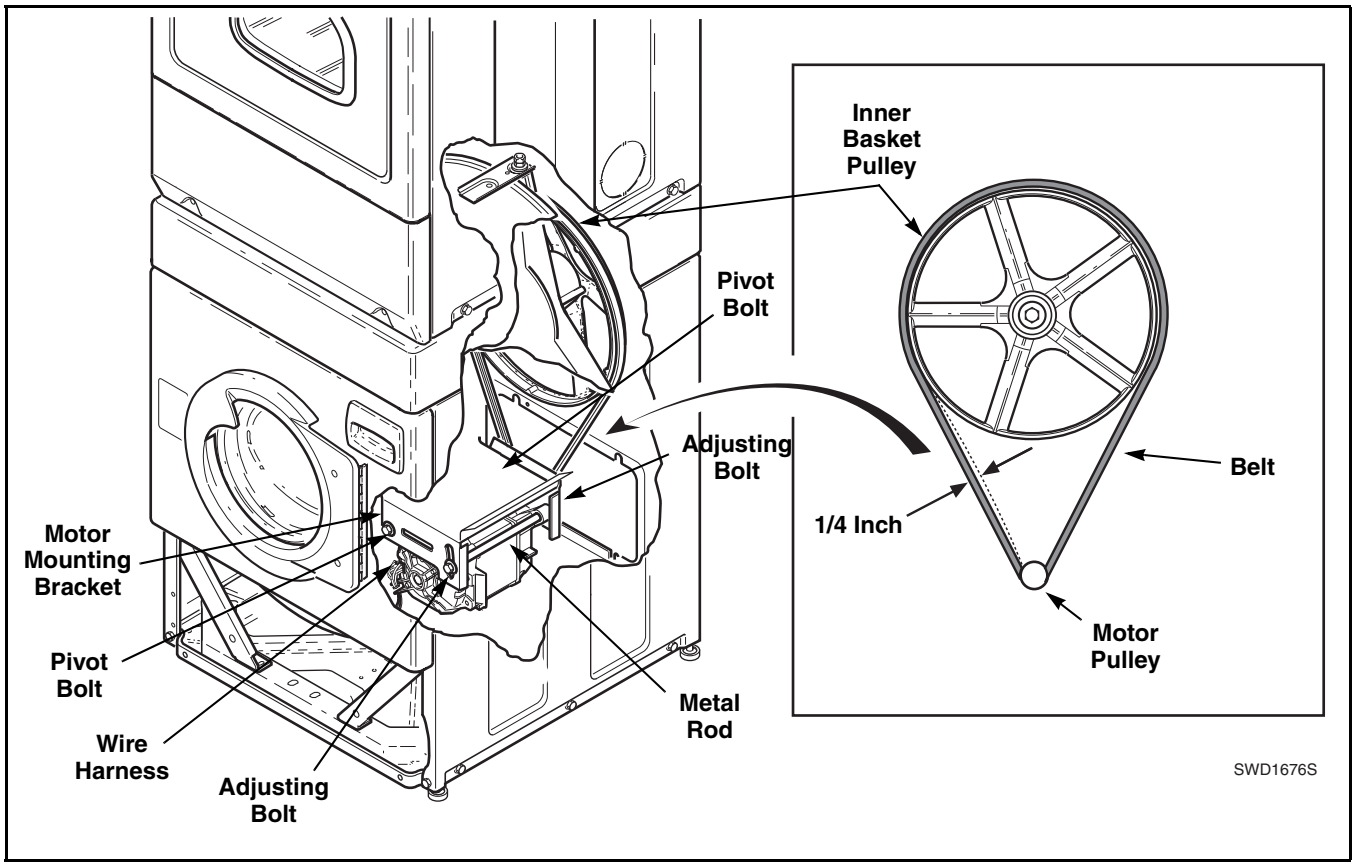

Figure 60

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

83. WASHER DOOR CATCH

NOTE: When repairing a broken or inoperative No. 685430 Door Catch, proceed as follows:

a. Remove door bezel.
b. Remove two screws and nuts holding door catch to door and remove door catch.
c. Install new door catch and tighten screws and nuts to the point of being snug.
d. Adjust door catch so the outside edge is aligned with the edge of the latch. Refer to *Figure 61*.
e. Visually check that the door catch properly engages the funnel of the door latch/switch assembly. Refer to *Figure 61*.
f. Recheck the alignment in step “d”. Adjust if needed.
g. Torque the two nuts to approximately 30 inch pounds (3.4 Nm).
h. Reinstall door bezel.

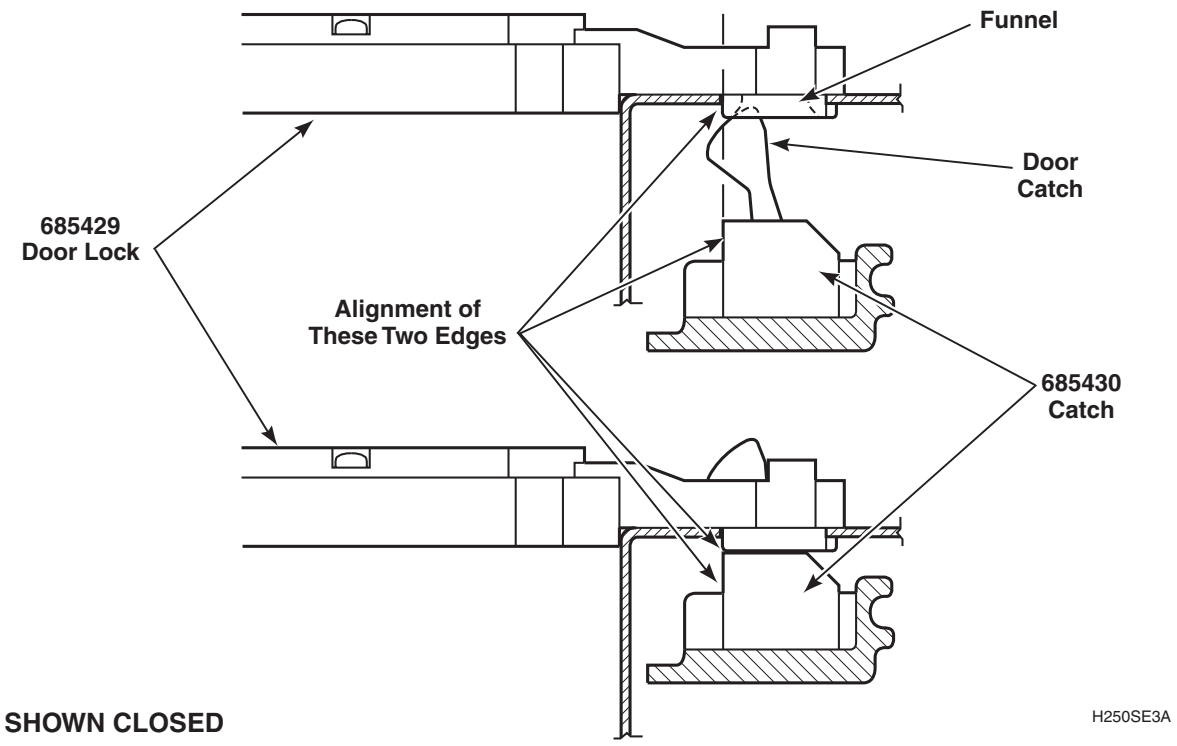

Figure 61

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

84. SHIPPING BRACES

All stacked washer/dryers, when shipped from the factory are equipped with two factory installed shipping supports. DO NOT remove this shipping material until after machine is placed in its final installed position. Refer to *Figure 62*.

IMPORTANT: DO NOT tip or move washer once these supports have been removed. Removal of supports prior to final installation may cause damage to the shock absorbers and will VOID the product warranty.

NOTE: Shipping supports MUST be kept for future re-positioning or moving of the machine.

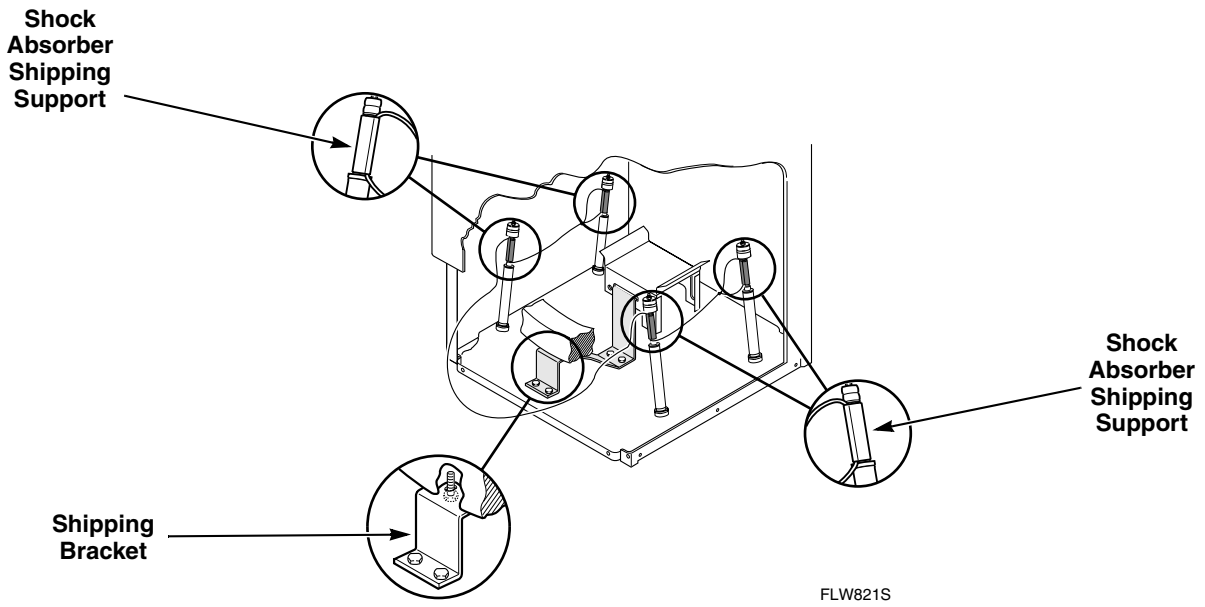

Figure 62

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

85. BURNER FLAME (Gas Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.
c. Set timer to 60 minutes.
d. Close the loading door. Start the dryer in a heat setting (refer to Operating Instructions supplied with the dryer). The dryer will start, the igniter will glow red, and the main burner will ignite.
e. Allow the dryer to operate for approximately five minutes, then loosen the air shutter lockscrew. Refer to *Figure 63*.
f. Turn the air shutter to the left to get a luminous yellow tipped flame, then turn it back slowly to the right to obtain a steady blue flame.
g. After proper flame is obtained, tighten air shutter lockscrew firmly. Refer to *Figure 63*.
h. Reinstall access panel and screws.

WARNING

To reduce the risk of fire or serious injury, the access panel must be in place during normal operation.

W262

NOTE: After the dryer has operated for approximately three minutes, exhaust air or exhaust pipe should be warm.

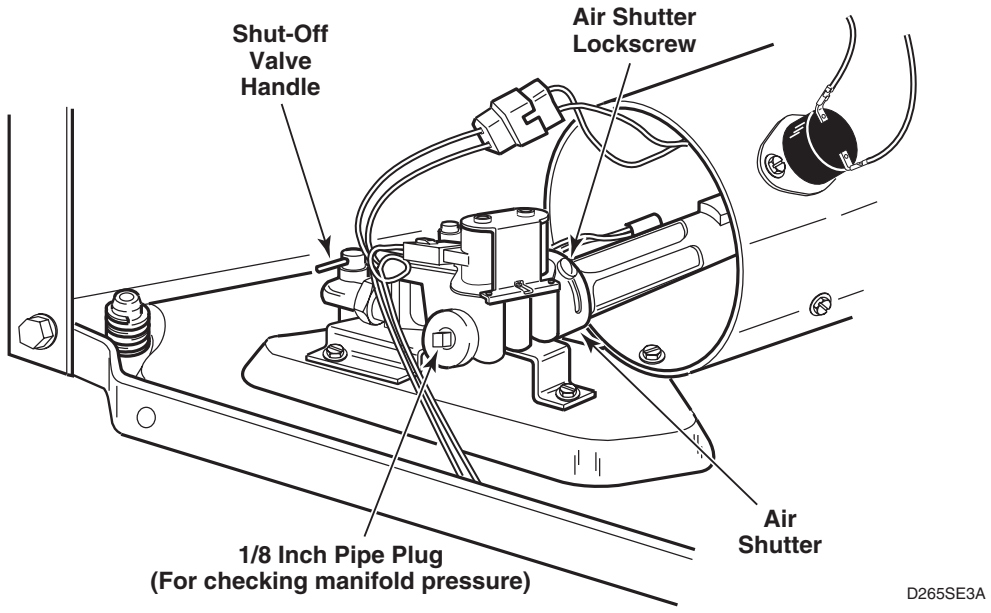

Figure 63

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Section 7
Dryer Test Procedures

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

IMPORTANT: Electrical test procedures in this service manual are performed by using a Volt-Ohm meter. Tests can also be performed using a multi-meter or any other electrical testing equipment with which the service person is familiar.

86. TIMER CONTACTS
Refer to *Figure 64*.

a. Disconnect wires from timer, except timer motor wires.

NOTE: Refer to appropriate wiring diagram when rewiring timer.

b. Manually rotate timer out of "OFF" position and into cycle.

c. Set test meter to read Ohms. The following readings should be found:
   (1) Motor circuit test – L1 and M = "zero" Ohms (closed)
   (2) Heat circuit test – L2 and H = "zero" Ohms (closed)
   (3) Timer motor test – T and N = approximately 2460-3100 Ohms or apply live power to timer motor terminals and motor should run.

NOTE: Timer Motor Resistance:

120 Volt, 60 Hz	**2,460 – 3,100 Ohms**
240 Volt	**10,900 – 13,000 Ohms**
24 Volt	**80 – 130 Ohms**

(4) Rotate timer to "cooldown" (5 minutes before "OFF"). "Infinite" (open) reading should be found between L1 and H.
(5) Rotate timer to "OFF" position. "Infinite" (open) reading should be found between L1 and M and between L1 and H.

NOTE: Timer motor power is supplied through M terminal.

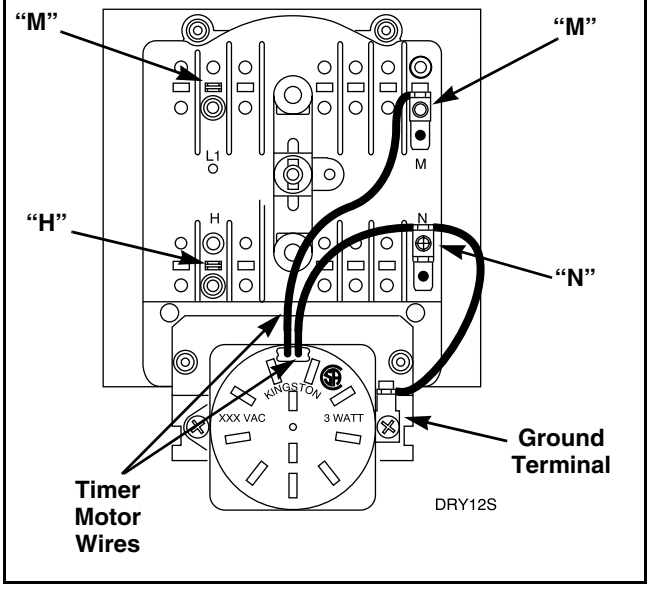

Figure 64

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

87. FABRIC SELECTOR SWITCH

NOTE: Refer to proper model wiring diagram when rewiring switch.

a. Set test meter to read Ohms and apply meter probes to switch terminals.

NOTE: Refer to proper model wiring diagram when reconnecting wires.

FABRIC SELECTOR SWITCH – 4 Position		
	L1-1	L1-2
Fluff	–	–
Delicate	X	X
Perm. Press	–	X
Normal	–	X
X indicates closed		

FABRIC SELECTOR SWITCH – 3 Position			
	L1-2	L1-3	L1-1
Fluff (No Heat)	–	X	–
Delicate	X	–	X
Perm. Press	X	–	–
Normal (Regular)	X	–	–
X indicates closed			

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

88. DRIVE MOTOR

Refer to *Figure 65*.

a. Remove motor and exhaust assembly. Refer to *Paragraph 71*.

b. Disconnect motor wire harness at motor disconnect block.

NOTE: Refer to wiring schematic, Section 8, for internal motor switch wires.

NOTE: Drive Motor Resistance

120 Volt	**2,460 – 3,100 Ohms**
240 Volt	**10,000 - 13,000 Ohms**

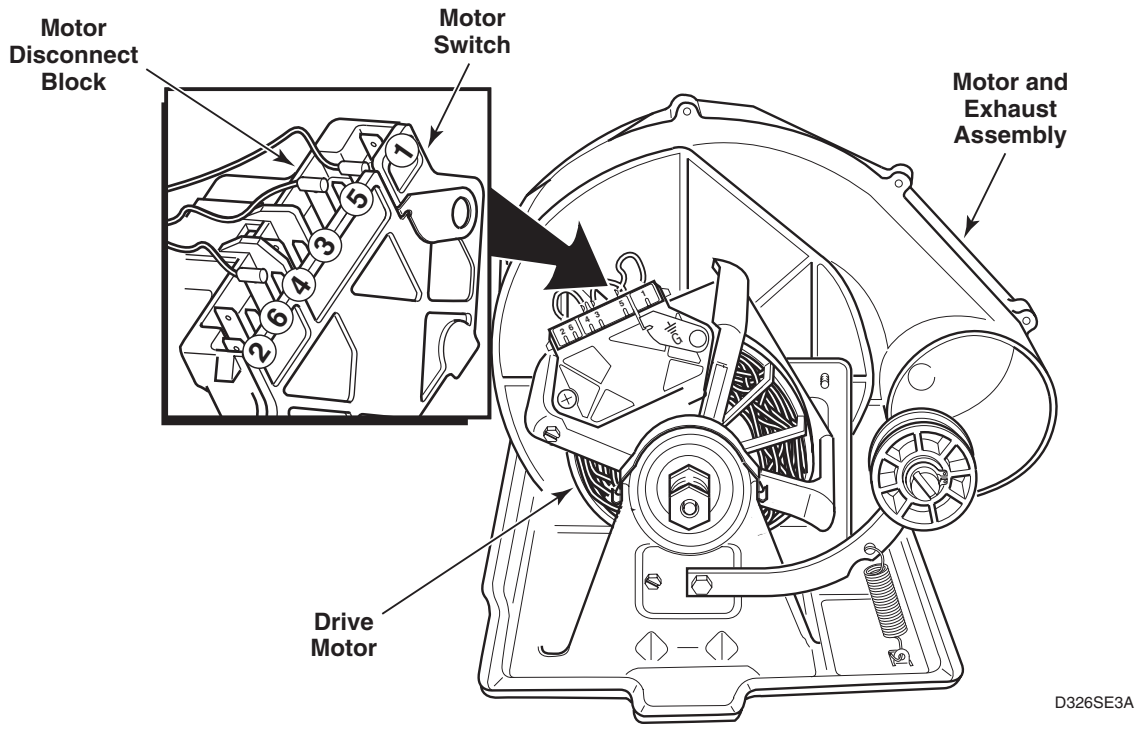

Figure 65

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

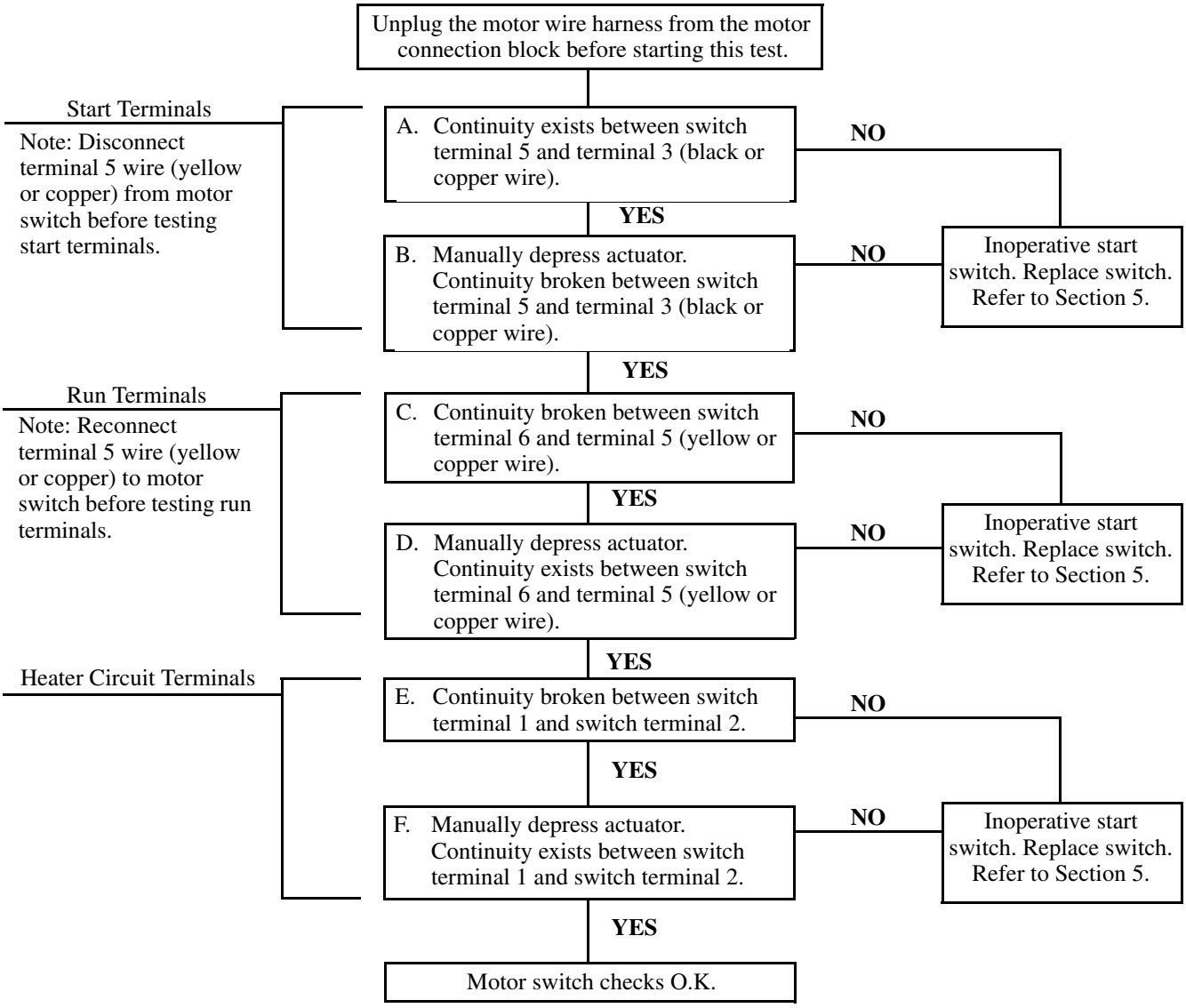
W502

c. **Motor Switch** (Refer to SECTION 8 for Internal Wiring of the Dryer Motor Switch.)

WARNING

Disconnect electric power to dryer before performing any of the following steps or when replacing inoperative motor switch.

W290


Unplug the motor wire harness from the motor connection block before starting this test.
Start Terminals
Note: Disconnect terminal 5 wire (yellow or copper) from motor switch before testing start terminals.
A. Continuity exists between switch terminal 5 and terminal 3 (black or copper wire).
NO
YES
B. Manually depress actuator. Continuity broken between switch terminal 5 and terminal 3 (black or copper wire).
NO
Inoperative start switch. Replace switch. Refer to Section 5.
YES
Run Terminals
Note: Reconnect terminal 5 wire (yellow or copper) to motor switch before testing run terminals.
C. Continuity broken between switch terminal 6 and terminal 5 (yellow or copper wire).
NO
YES
D. Manually depress actuator. Continuity exists between switch terminal 6 and terminal 5 (yellow or copper wire).
NO
Inoperative start switch. Replace switch. Refer to Section 5.
YES
Heater Circuit Terminals
E. Continuity broken between switch terminal 1 and switch terminal 2.
NO
YES
F. Manually depress actuator. Continuity exists between switch terminal 1 and switch terminal 2.
NO
Inoperative start switch. Replace switch. Refer to Section 5.
YES
Motor switch checks O.K.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

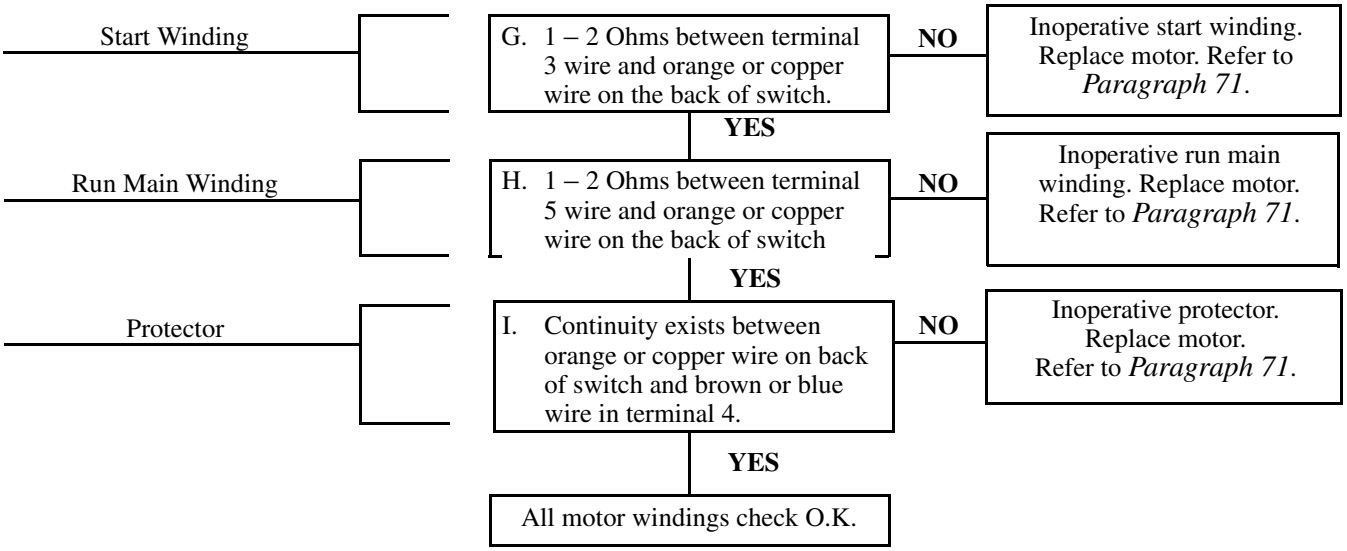
W502

d. **Motor Windings** (Refer to SECTION 8 for Internal Wiring of the Dryer Motor Switch.)

WARNING

Disconnect electric power to dryer before performing any of the following steps or when replacing inoperative motor switch.

W290


Start Winding
G. 1 – 2 Ohms between terminal 3 wire and orange or copper wire on the back of switch.
NO
Inoperative start winding. Replace motor. Refer to *Paragraph 71.*
YES
Run Main Winding
H. 1 – 2 Ohms between terminal 5 wire and orange or copper wire on the back of switch
NO
Inoperative run main winding. Replace motor. Refer to *Paragraph 71.*
YES
Protector
I. Continuity exists between orange or copper wire on back of switch and brown or blue wire in terminal 4.
NO
Inoperative protector. Replace motor. Refer to *Paragraph 71.*
YES
All motor windings check O.K.

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WARNING

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- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

89. MOTOR SWITCH

a. Remove motor and exhaust fan assembly. Refer to *Paragraph 71*.

b. Remove the two motor switch attaching screws. Refer to *Figure 71*. Disconnect switch leads. Remove motor switch.

c. Remove thermal overload protector

NOTE: The thermal overload protector is unique to the motor from which it was removed and should only be used on that motor. To reduce the risk of overheating the motor, do not use any thermal overload protector other than the one taken from the inoperative motor switch in step 3.

(1) **Motor with Switch on Blower End** Using a small bladed screwdriver, press the thermal overload protector mounting tab downward and remove the thermal overload protector from the inoperative motor switch. *Figure 66*.

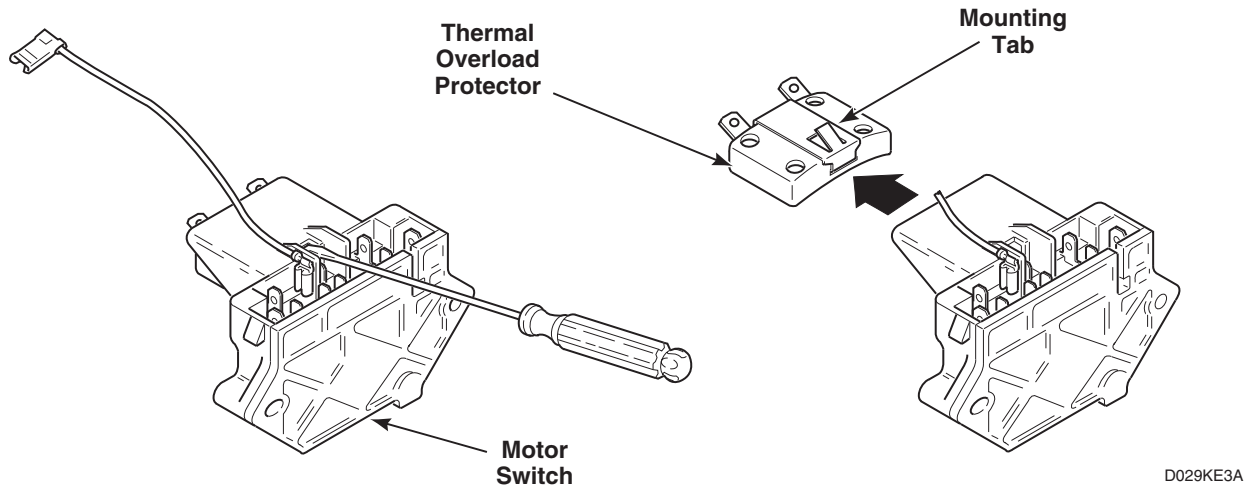

Figure 66

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

(2) **Motor with switch on pulley end**
Press the tip of a small bladed screwdriver into the slot located between top of motor switch and plastic clip. Lift up on handle of screwdriver until both clip and thermal overload protector detach from motor switch. Refer to *Figure 67*.

d. Attach the thermal overload protector removed in Step "c" to the new motor switch.

e. Install new motor switch onto motor and reconnect motor switch leads removed in Step "b". Refer to *Figure 71*.

f. Test motor switch by following the step-by-step procedures included in *Paragraph 45*.

g. Before reinstalling the motor assembly, apply power (120 VAC) directly to motor terminals 4 and 5. Then start and run the motor at least 6 times, making sure the motor and switch are operating properly.

NOTE: The dryer manufacturer and parts suppliers are not liable for improper switch installation.

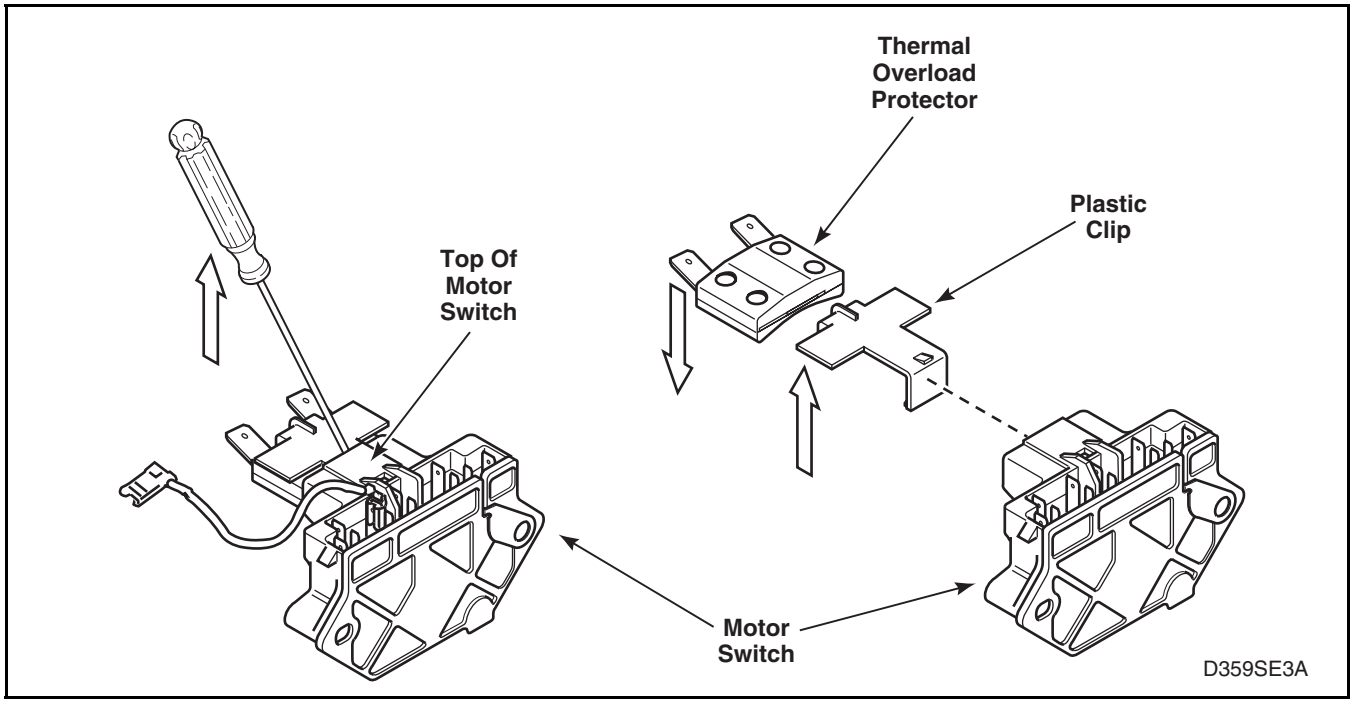

Figure 67

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

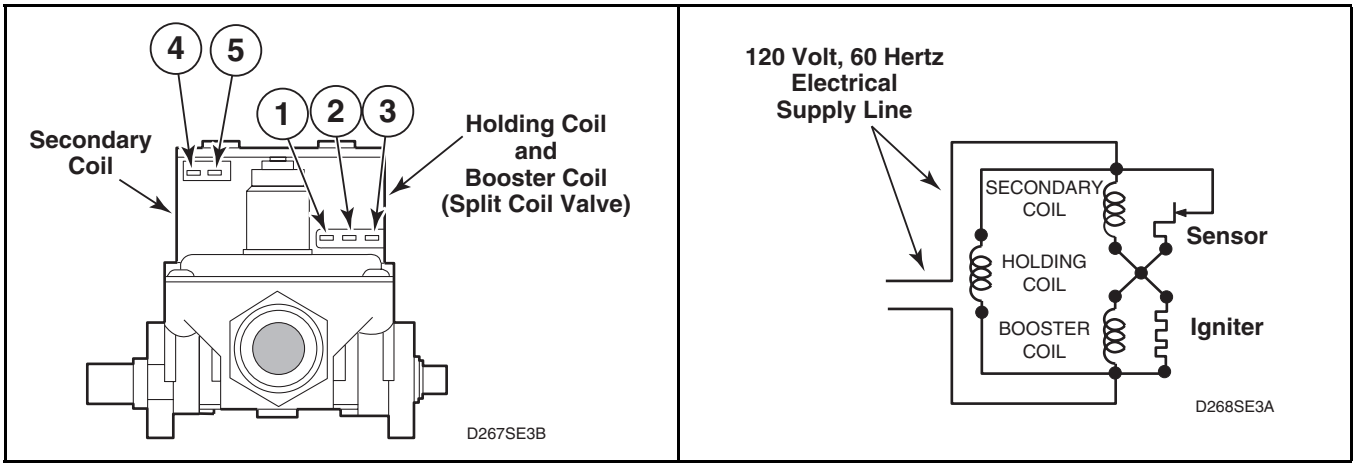

Figure 68

90. BURNER SYSTEM OPERATION
(Gas Models – Refer to *Figure 68*.)

a. **Components**
This burner has four basic components: a silicon carbide (glow bar) igniter, burner tube, sensor, and a two-stage gas valve consisting of a split-coil valve and a secondary coil valve. The split-coil valve is opened when the dryer thermostat calls for heat, while the secondary valve does not open until the igniter has attained ignition temperature.

b. **Pre-Ignition Circuits**
When the dryer thermostat calls for heat, circuits are completed through the holding coil, sensor, booster coil and igniter. Both coils must be energized to open the split-coil valve. Once opened, the holding coil can hold the valve open without assistance from the booster coil. The sensor triggers the current to travel around the secondary coil and through the igniter, causing the igniter to get hot.

c. **Burner Circuit**
In approximately 30 seconds, the igniter attains ignition temperature and ignition is made. The heat from the burner flame causes the sensor contacts (located on burner housing beside the igniter) to open. A circuit is then completed through the secondary valve coil, opening the valve and allowing gas to flow.

d. **Momentary Power Interruption**
Upon resumption of power, sensor contacts will still be open, permitting secondary valve to open. However, with the secondary coil in the circuit, the booster coil cannot draw enough current to open the split-coil valve. When sensor contacts do reclose, the secondary valve will close, and the burner system will be in the normal pre-ignition circuit.

e. **Flame Failure**
In case of flame failure, the sensor contacts will re-close in about 45 seconds. This will close the secondary valve and the burner system will be in the normal pre-ignition circuit.

f. **Ignition Failure**
If flame is not established as sensor contacts open, secondary valve will remain open until sensor contacts re-close. Sensor will continue to recycle the igniter and secondary valve (about once per minute) until ignition is made or dryer is turned off.

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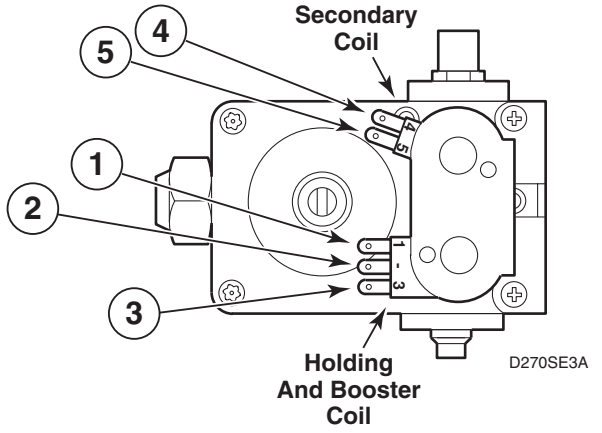
WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

91. ELECTRICAL CIRCUIT TO IGNITION SYSTEM (Gas Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.
c. Close main gas shut-off valve. Refer to *Figure 63*.
d. Remove valve wire harness disconnect block from the holding and booster coil. Refer to *Figure 69*.
e. Plug dryer power cord into wall receptacle, and start the dryer in a heat setting (refer to the Operating Instructions supplied with dryer).
f. Set test meter to read AC voltage and apply meter probes into terminals on the dryer harness plug that would correspond to terminals "1" and "2" on the coil. *Figure 68*. Meter should register line voltage in all Fabric settings, except FLUFF which should read “zero” VAC.
g. If meter does not read line voltage in step “f”, check motor switch, thermostats, fabric switch, accumulator, or timer.



GAS VALVE FOR SILICON CARBIDE IGNITION

Figure 69

WARNING

To reduce the risk of fire, explosion and electric shock, close the valve in the gas supply line to the gas dryer and disconnect the electrical power unless gas or power supplies are required to perform test procedure.

W263

92. GAS VALVE COILS CHECK (Gas Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.
c. Close main gas shut-off valve. Refer to *Figure 63*.
d. Remove disconnect blocks from gas valve coils.
e. Set test meter to read Ohms and put meter probes to terminals shown in *Figure 69*, and in the following chart.

COIL TOLERANCE READINGS

Meter probes to terminals:	Meter should read:
Holding Coil – Terminals 1 & 2	1365 ± 25 Ohms
Booster Coil – Terminals 1 & 3	560 ± 25 Ohms
Secondary Coil – Terminals 4 & 5	1220 ± 50 Ohms

NOTE: If meter registers any other readings than those listed above, the respective coil(s) should be replaced.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

93. SENSOR CHECK (Gas Models)

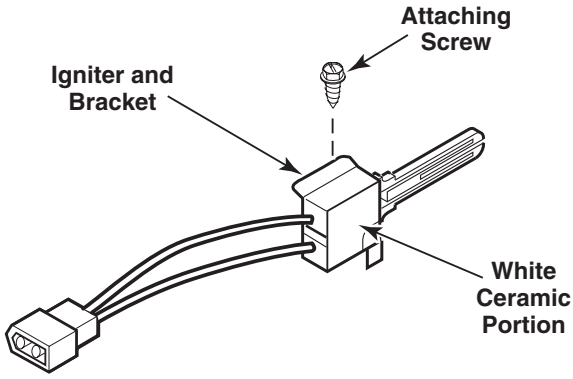
a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel.
c. Close main gas shut-off valve. Refer to *Figure 63*.
d. Remove wires from sensor terminals. Refer to *Figure 37*.
e. Set test meter to read Ohms and put meter probes on sensor terminals. Meter should read "zero" Ohms. If meter registers an Ohm reading of any amount, replace sensor.

94. IGNITER CHECK (Gas Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.
c. Close main gas shut-off valve. Refer to *Figure 63*.
d. Disconnect igniter wires at disconnect block.
e. Set test meter to read Ohms and put meter probes on terminals of igniter wires.
f. **Silicon Carbide Igniter –** meter should read between 45 – 200 Ohms. Refer to *Figure 70*.

NOTE: If meter does not read appropriate Ohms, then replace the igniter.

IMPORTANT: Always examine all wires, terminals and connectors to be sure wiring is correct before replacing any components.



SILICON CARBIDE IGNITER AND BRACKET ASSEMBLY

D337SE3A

Figure 70

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

95. THERMAL FUSE (Electric Models)

a. While supporting the access panel, remove two screws from bottom edge of front access panel. Refer to *Figure 27*.

b. Gently lower the access panel to disengage panel locators from bottom edge of front panel. Refer to *Figure 35*.

c. Label and disconnect wires from thermal fuse. Refer to *Figure 39*.

NOTE: Refer to wiring diagram when rewiring thermal fuse.

d. Set multimeter to read Ohms. Apply meter probes to thermal fuse terminals. Multimeter should read 0 Ohms. If the meter does not show any reading (infinite Ohms), then the fuse is open. If the fuse is open, then replace BOTH the thermal fuse and the limit thermostat.

96. HEATER ASSEMBLY (Electric Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.

b. Gently lower the access panel to disengage panel locators from bottom edge of front panel. Refer to *Figure 35*.

c. Disconnect wires from heater assembly. Refer to *Figure 39*.

NOTE: Refer to wiring diagram when rewiring heater assembly.

d. Set meter to read Ohms. Apply meter probes to the heater assembly terminals. Refer to *Figure 39*. Meter should read as follows: (Cold Ohms).

Element Color Code	KW	Voltage/Hz.	Resistance Reading
Red	5	240 V 60 Hz.	10.39 ± .31 Ohms Cold
White	4.75	208 V 60 Hz.	8.2 ± .5 Ohms Cold
Green	4.8	240 V 50 Hz.	10.75 ± .32 Ohms Cold
Yellow	4	240 V 50 Hz.	13.03 ± .39 Ohms Cold
Blue	3.1	240 V 50 Hz.	16.7 ± .5 Ohms Cold
Orange	5.35	240 V 60 Hz.	9.72 ± .3 Ohms Cold
Purple	4.25	208 V 60 Hz.	9.27 ± .3 Ohms Cold

97. CYCLING OR LIMIT THERMOSTAT

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.

b. Gently lower the access panel to disengage panel locators from bottom edge of front panel. Refer to *Figure 35*.

c. Label and disconnect wires from thermostat. Refer to *Figure 40*.

NOTE: Refer to wiring diagram when rewiring thermostat.

Cycling Thermostat (S.P.S.T. – 2 Terminals) or Limit Thermostat

d. Set meter to read Ohms.

(1) Apply meter probes to the thermostat terminals.

(2) Meter should read “zero.”

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WARNING

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- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

98. DOOR SWITCH

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 27*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 35*.
c. Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 28*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
d. Disconnect wires from door switch. Refer to *Figure 34*.

NOTE: Refer to model wiring diagram when rewiring door switch.

e. Set meter to read Ohms and apply meter probes on switch terminals 1 and 3 with door closed. You should get “zero” reading.
f. Apply probes to terminals 1 and 2 with door closed. The meter should read “infinite”.
g. Open door. Meter should read “infinite” between 1 and 3 and “zero” between 1 and 2.

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Section 8
Internal Wiring of Dryer Motor Switch

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

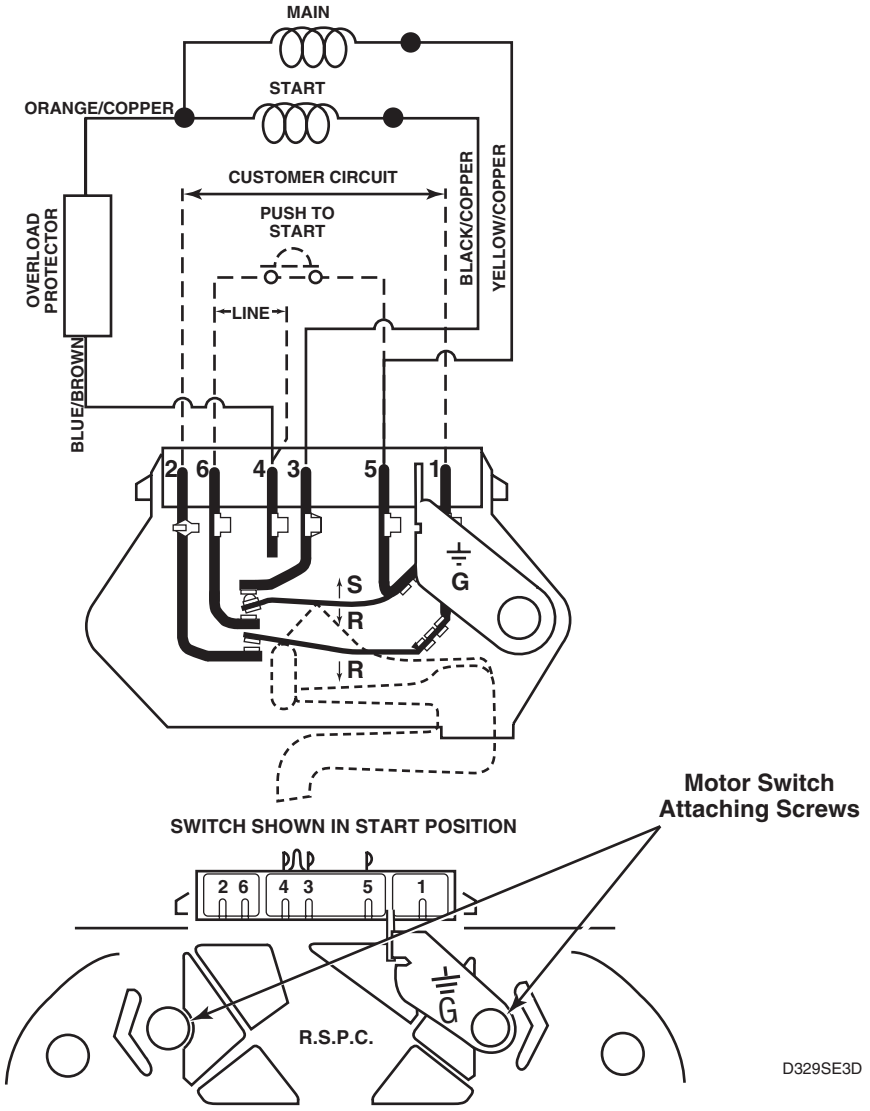

Figure 71

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Notes

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